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California's "Mothball Oilfield"

Long range planning has made Naval Petroleum Reserve No. 1 at Elk Hills, California, the United States Navy's strategic ace-in-the-hole in the oil supply picture.

In the event of all-out-war—the only circumstance in which Elk Hills' shut-in wells would be opened up—the Naval Petroleum Reserve could produce upwards to 100,000 barrels per day, more than 10 per cent of California's present daily production.

Substantial increases in this potential are being made by drilling now in progress at Elk Hills. Five contract rigs are being utilized in an ambitious program designed to develop oil reserves rivaling in value the Federal Government's gold hoard at Fort Knox, Kentucky.

Recent discovery of a deeper producing horizon in the southwestern portion of the 46,000-acre reserve promises to make a significant addition to known reserves underlying the Elk Hills field.

Other phases of the Navy's far-seeing preparedness program include construction of a $4,500,000 gasoline and pressure maintenance plant, together with a $2,000,000 gathering system and constant maintenance of the shut-in wells which have earned for Elk Hills the title of California's "Mothball Oilfield."

Captain R. H. Meade, USN, is director of Naval Petroleum Reserves, with offices in Denver, Colorado. Members of the two-man operating committee for the Elk Hills reserve are W. A. Walker, who represents the Navy, and V. O. Wankowski, representing Standard Oil of California. Commander W. M. Gustafson is inspector of Naval Petroleum Reserves in California, with offices at Elk Hills. Assistant inspector is Lieutenant-Commander F. W. Gooch.

Termination of World War II marked a major change in the oilfield operations at Elk Hills. Production was greatly curtailed and a long range exploratory program was inaugurated. Production was reduced from the wartime peak of 65,000 barrels per day to the current rate of about 7000 barrels per day in order to maintain an available source of crude that might be drawn upon during a national emergency.

As long as private producers can supply demands of the American armed forces, the Navy will not open up the Elk Hills field. The reserve's wells were put on production in World War II only because other sources were unable to supply enough oil to meet requirements of our forces in the Pacific theater.

The first phase of an $80,000,000 development program for the reserve's known resources is within two years of completion.

This phase calls for developing the Stevens zone by drilling one well to every eighty acres in zones that produce from fractured shale or zones made up of relatively thin sands of low permeability and one

STEVENS ZONE WELL—Christmas-tree installation (above) marks No. 344, one of the 158 Stevens zone wells drilled in the past three years at Naval Petroleum Reserve No. 1. Average cost of these wells ranges between $100,000 and $140,000.

STEVENS TANK SETTING—Development of the Stevens zone at Elks Hills necessitated construction of additional storage facilities on the 46,000-acre Naval Petroleum Reserve No. 1. Shown above is a tank setting especially built for the deeper zone oil.

well to every forty acres in thick sand zones.

One hundred and fifty-eight Stevens zone wells had been completed by the middle of February, three years and one month after initiation of the Stevens program, and eighty-one new locations remained to be drilled. There are good prospects that additional new locations will be proved up by subsequent drilling activity.

As defined in the Unit Plan Contract, the Stevens zone consists of "all oil and gas bearing formations of Upper Miocene age within the stratigraphic interval between the top of the Reef Ridge shale and the top of the Valvulineria Californica or associated faunas of Middle Miocene age."

The Reef Ridge formation, lying immediately below the base of the shallow oil zone at Elk Hills, is about 800 feet thick and consists of dark gray to brown shale. Below the Reef Ridge is the hard brown shale, which consists of about 2500 to 3500 feet of hard, dark brown siliceous shale with thin stringers of chert.

The N-point, a marker from the electric log, occurs about 100 feet below the top of the cherty shale. Stevens sand, when present, exists about 300 feet below the N-point. Productive sand thickness has been found to vary from 0 to 1240 feet.

Drilling and testing of the Stevens zone has been a slow, tedious process. As in other Southern San Joaquin Valley fields, considerable cherty shale overlies the productive measures of the Stevens. In some wells it has been necessary to penetrate 3000 feet of this hard formation to completely test the Stevens zone.

Design of the casing strings has been altered to meet the variety of subsurface conditions encountered in the Stevens. An average Stevens casing program might be as follows: 18⅝ inch cemented at 200 feet; 13⅜ inch cemented at 3600 feet; 9⅝ inch cemented at 6500 feet; 6⅝ inch liner 6450 to 6800 feet; perforated 6520 to 6800 feet; 60 mesh.

Cost range for the Stevens zone wells is between $100,000 and $140,000, depending on which of the five main zones in the Stevens is being developed. Average drilling time is 37 days. Average production is 158 barrels per day of 32-37 degrees gravity oil from an average depth of 6500 feet.

Maximum efficient rate of production for wells already completed to the Stevens zone would aggregate about 40,000 barrels per day at the present time. On a conservative basis, reserves of the Stevens zone are placed at about 250,000,000 barrels.

Eight of the Stevens zone development wells have been drilled to the 26R zone, one of the five main zones in the Stevens which is believed to be the thickest body of oil sand in California.

One well, No. 336 26R, logged 1480 feet of oil sand, of which 1240 feet proved to be clean sand. Two other wells drilled to the same zone logged more than 1000 feet of good oil sand.

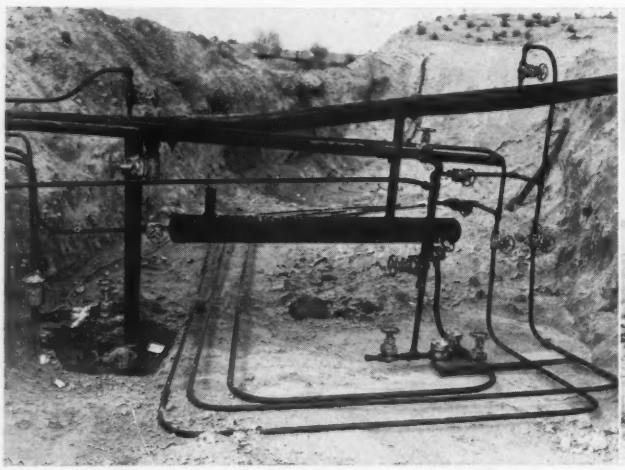
Such wells probably would make between 5000 and 10,000 barrels of oil per day if opened up. Present procedure is to produce the wells for 30 days under varying restrictions in order to gain reservoir information before shutting them in.

Drilling contractors currently operating rigs in the Stevens zone development program are Thomas P. Pike Drilling Company, three rigs; and Buaas Drilling Company, one rig.

Another phase of the Navy's program at Elk Hills calls for full development of the shallow zone, which had 570 wells when the shallow drilling program was started in May, 1951.

Fifty-three shallow zone wells have been completed and forty more are currently scheduled. An additional number, roughly estimated at 150, must be drilled before the shallow zone can be considered fully developed.

Formations overlying and associated with the oil measures in the shallow oil zone do not offer any unusual difficulties in drilling. The surface formation is Tulare of Pleistocene age. Consisting of unconsolidated sand, light gray clays,



AUTOMATIC DRIP COLLECTOR—An out-of-the-ordinary feature of gas lines at Elk Hills are the automatic drip collectors, one of which is shown above. The automatic drip collector takes gasoline out of the gas line and returns it to the gas plant in a separate line.

DISCOVERY WELL—Early in January, 1952, Standard Oil Company of California, unit operator, completed No. X-55 (above) in the southwestern portion of Naval Petroleum Reserve No. 1 for 222 barrels per day of clean 51.6-gravity oil and discovery of a new producing horizon at Elk Hills. Completion of the 12,856-foot well from an interval at 9309-9350 feet in the Carneros sand proved up a new producing zone about 1000 feet deeper than any previously discovered at Elk Hills.

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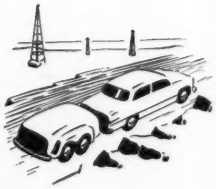

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silts, gravels and marls, it has a thickness of 800 to 1200 feet.

Underlying the Tulare are the San Joaquin clays with a thickness varying from 1200 to 1800 feet. At the base of the San Joaquin clays is the Scalez oil zone, which provides the major portion of the shallow zone production.

The shallow oil zone is defined in the Unit Plan Contract as "all oil or gas bearing formations of Pliocene age above the Reef Ridge shale." This interval normally includes about 4000 feet of section lying at a depth from 1000 to 5000 feet.

Various casing programs have been used depending on the structural location of the well and the objective. In some wells 11¾ inch casing has been cemented at about 1200 feet and a 7 inch pre-perforated combination string cemented through ports over the lowermost productive interval. Many other wells are completed with 7 inch water string and 5½ inch liners in lieu of the combination string.

Average depth of the shallow zone wells, which are spaced one to every 20 acres, is 3200 feet. Average drilling time is nine and one-half days and the average cost is $35,000. Potential production for the completed wells ranges from 100 to 400 barrels per day and the gravity range is 20-21 degrees.

One contract rig from Krug Drilling Company is being utilized for shallow development work at the present time.

Potential production from wells already completed to the shallow zone would aggregate about 50,000 barrels per day at the present time. Reserves of the shallow zone are placed at about 400,000,000 barrels.

Completed wells are opened up long enough for production tests, after which they are shut in and kept in a state of readiness for emergency production. Good engineering practices require that a minimum trickle of oil be produced from the shut-in field.

Production from the shallow oil zone amounts to about 5000 barrels per day and from the Stevens zone about 2000 barrels per day. This production results from the readiness program and also from the testing of the new wells drilled under the development programs. Navy currently takes 8/9ths and Standard 1/9th of the shallow production and Navy takes 4/5ths and Standard 1/5th of the Stevens production. Navy sells its share of production to Wilshire Oil Company.

Discovery of a new production horizon at Elk Hills early this year added an important new reservoir of oil and gas to the resources already known to exist under the surface of Naval Petroleum Reserve No. 1.

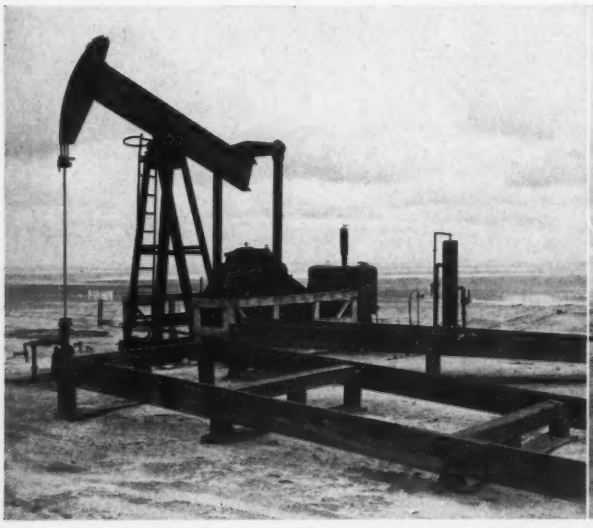
Standard Oil Company of California, unit operator for the field, completed the Navy's No. X-55 well in the southwestern portion of the reserve for 222 barrels per day of clean 51.6-gravity oil, flowing through a 10/64 inch choke, and 1,519,000 cubic feet of gas per day. Completion of the test well from an interval at 9309-9350 feet in the Carneros sand proved up a new producing zone about 1000 feet deeper than any previously discovered at Elk Hills.

Sixteen months drilling time and almost one million dollars were required to sink the discovery well, which probed previously unexplored Elk Hills' formations to a total depth of 12,856 feet. A Congressional appropriation of $800,000 was set aside a year and a half ago to pay the drilling costs.

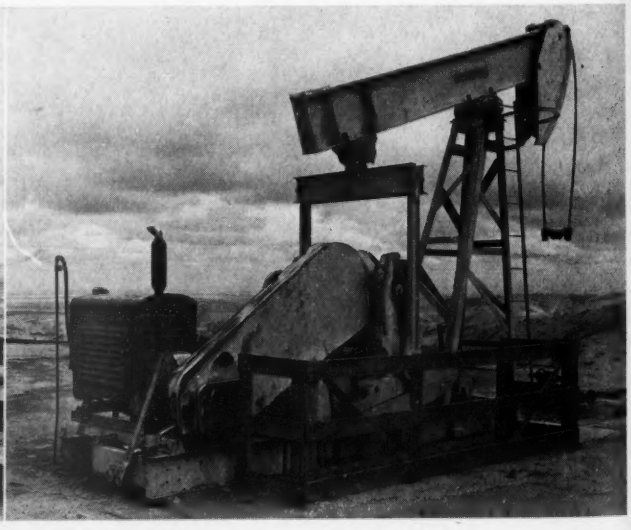
After the new well was allowed to produce for a short time in order to determine its potential, it was shut in. No follow-up Carneros zone tests have been scheduled, though additional exploration of the new reservoir is considered a certainty for the future.

Prior to the new discovery, Elk Hills' reserves were conservatively estimated to exceed 650,000,000 barrels—almost double the reserves of any other California oil field.

Construction began in November,



SHUT-IN WELL—One phase of the Navy's program at Elk Hills is the maintenance of shut-in wells like No. 68-33S (above) in a constant ready-to-produce condition. Rods and tubing are usually left in the wells and the engines "pickled." No particular deterioration of equipment has been noted in the six years that the readiness project has been carried on.



"PICKLED" ENGINE—Engines on the shut-in wells like the shallow zone well above are "pickled," i.e., normal oils in the crankcase and reduction gears are replaced by inhibited oil designed to prevent rust formation, radiators are left dry, exposed polished surfaces are covered with rust-preventative oil, and belts are stored in a cool, dry warehouse. Note the tape on the engine exhaust above.

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1951, for a $4,500,000 gasoline and pressure maintenance plant at the reserve and work is scheduled to be completed in September of this year. Capacity of the new plant will be 50,000,000 cubic feet of gas per day, which, translated into end products, represents 45,000 gallons of gasoline, 48,000 gallons of propane, 26,000 gallons of butane, and 15,000 gallons of isobutane.

A significant feature of plant design includes the building-in of facilities for eventual expansion of plant capacity to a potential of 100,000,000 cubic feet of gas per day.

One thousand gallons of gasoline per day are being produced by the small gasoline plant presently operating in the reserve. Present facilities are inadequate for any production of other fuels.

Parsons-Macco Company has the contract for the building of the plant, which is located in the southwestern portion of the reserve. Laying of the 100 miles of pipeline gathering system began last September and now is 60 per cent complete.

Along with the drilling programs already described, the Navy carries on a readiness project for the shallow zone wells and also the Stevens zone wells. Purpose of the project is to maintain the wells in constant ready-to-produce condition and prevent underground damage from water encroachment.

Producing equipment left on the shut in wells is carefully guarded against corrosion. The rods and tubing are left in the wells and the engines "pickled." The pickling consists of replacing the normal oils, in the crankcase and reduction gears, with inhibited oil designed to prevent rust formation on a closed engine. Radiators are left dry after flushing with a solution of 60 per cent ethylene glycol, 35 per cent water and 5 per cent water-soluable cutting oil. Exposed polished surfaces are covered with rust-preventative oil and all belts are stored in a cool, dry, dark storehouse. During the tests on these wells—five-day tests once every two years for certain wells and eight-day tests annually for other wells—the engines are operated on the inhibited oil. This oil requires changing only about every five years when used in this manner. After each test the well equipment is returned to its former pickled condition. So far no particular signs of deterioration have been noted in the equipment since the readiness project began some six years ago.

Wells sometimes are tested for leakage through helium injections which permit tracing of underground gas movements. During the periodical tests, wells are produced in small groups of 10 or 15 in order to facilitate gauging.

Nine thousand of the reserve's 46,000 acres are privately owned, principally by Standard Oil Company of California, and the executive order by President Taft that established the reserve in 1912 made clear that Standard's rights were not affected by creation of the reserve.

In 1944 Navy and Standard entered into a unit plan agreement, which provided for the operation of the field as a unit, thus avoiding competitive development and consequent drainage, and placed control of the production largely in Navy's hands.

In mid January Standard Oil Company of California proposed major changes in the contractual relationship between Standard and the Navy at the reserve. Standard's proposal calls for Standard's ultimate withdrawal from the reserve, according to T. S. Petersen, the company's president.

In return, Standard would be permitted under the proposal to take, from its share of the reserve, the current production from the shallow zone during non-emergency periods.

Main points of the Standard proposal are as follows:

Standard will transfer to Navy all of its interest in the Stevens zone, which is ideally suited to Navy's objectives of maintaining a reserve. Navy will transfer to Standard an equivalent number of barrels of less valuable oil in the shallow zone, which, according to Standard's proposal, is not well suited to be a reserve.

Standard will spend approximately $1,000,000 a year for readiness development of the shallow zone, which amount it is not currently obligated to spend.

Navy will continue existing control of production in the shallow zone, but whatever oil is produced in non-emergency periods will go to Standard and be charged against Standard's share. During emergency periods, the major portion of the shallow zone production will go to Navy.

As an added consideration, Standard will transfer to Navy 15,000,000 barrels of its shallow zone reserves.

No change in the existing contract can be made without approval of the Secretary of the Navy, the Department of Justice, the Congress and the President inasmuch as the Naval Petroleum Reserves are operated under special legislation which assures public review of any important changes in policy or procedure.

While Elk Hills enjoys a period of great activity, the elk herd for which the dry hills were named has been depleted until today some 120 tule elk are all that remain to roam the 1000-acre state reserve north of the oil field.

C. P. Watson Retiring Soon

C. P. Watson, one of the California oil fraternity's favorite members, is retiring from his administrative duties with Seaboard Oil Company of Delaware next April 30.

Watson, vice president of the company in charge of the Western division, desired to be relieved of his administrative duties in order to devote a substantial part of his time to private consultation on petroleum matters. He will be retained by Seaboard as a consultant.

He has been with the company since 1930.

Norman A. Rousselot, assistant vice president and assistant to Watson for some years, has been named to succeed the retiring executive in charge of the Western division, which includes California, Rocky Mountain area and Canada.

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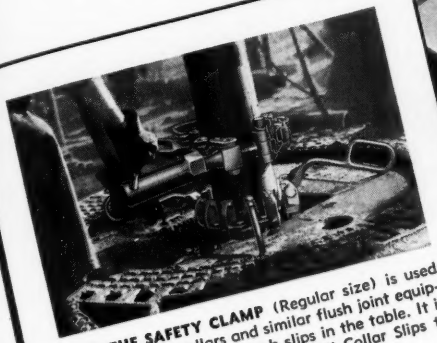
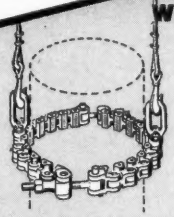
Regular Size Safety Clamp (Type CR), above, fits diameters 3¾" to 10⅝". Large Size (Type CL) fits diameters 11½" to 15½". Extra Large Size (Type CXL) fits diameters 15½" to 21". Tubing Size (Type T) fits diameters 1⅛" to 4½".

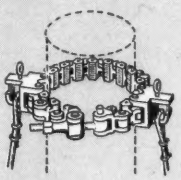


HERE THE SAFETY CLAMP (Regular size) is used to prevent drill collars and similar flush joint equipment from dropping through slips in the table. It is ideal for use with Baash-Ross Drill Collar Slips to give **double** protection against slipping!

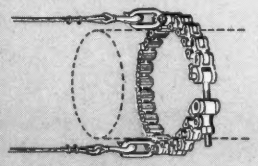
WIDE ADAPTABILITY



FOR LIFTING casing, pipe, liners or tubing, the Safety Clamp is equipped with lifting ears through which a sling can be fastened to substitute for elevators. The Extra Large Size shown here fits casing up to 21" in diameter!



FOR SNUBBING drill pipe and tubing, the Safety Clamp is simply inverted so the slip segments pull down instead of up. Easily-attached hold-down ears permit fastening anchoring cables with maximum speed and simplicity.



FOR PULLING pipe lines or pipe sections into alignment for welding, coupling or positioning, a Safety Clamp fastened around the pipe provides a slip-proof grip for pulling manually or mechanically.

Get Complete Details on the many ways Baash-Ross Safety Clamps can increase the safety and efficiency of your rig operations. Your local supply dealer will gladly supply full information —or write direct!

There seems to be no limit to the variety of jobs operators have figured out for the Baash-Ross Safety Clamp. Originally designed to take a quick, slip-proof grip on drill collars, liners and other flush joint equipment to prevent it from dropping through the table, it is now available in four sizes—Tubing, Regular, Large and Extra Large—to lift equipment *up* . . . or hold it *down* . . . or pull it *sideways. In fact, wherever you have a job calling for a firm grip on anything cylindrical—from only 1⅛" in diameter to 21"—the Baash-Ross Safety Clamp will probably do the job easier than you ever thought possible!*

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The Safety Clamp consists essentially of many individual links flexibly hinged together. Each link has a tapered slip held in retracted position by a spring. When the Clamp is tightened around the pipe—a quick and simple operation—each slip takes a firm initial grip on the surface of the pipe. As the load increases, each slip is wedged tighter, preventing any slippage between pipe and Clamp. There's no risk of crushing thin-walled pipe or damaging pipe surfaces because the grip is *uniformly distributed around the full circumference.* And since each link is interchangeable as a unit, simply adding or removing links readily adapts the Clamp to virtually any diameter pipe in common use.

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Personalities IN THE NEWS

Schlumberger Announces Important Personnel Changes For West Coast

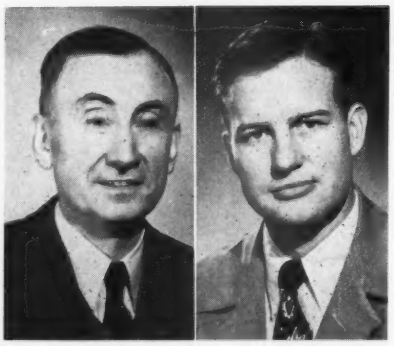
F. G. Taves, area manager of Schlumberger Well Surveying Corp., Los Angeles, has announced changes in the Pacific Coast Area, which will provide better service with expanding activity of the company in California. Two new divisions have been formed within the area. A. H. Curran, Jr., and F. L. Bryan have been appointed division managers.

A. H. Curran, Jr. | C. R. Edgecomb, Jr. | G. C. Hepburn, Jr. | William Plasch

F. L. Bryan | C. F. Gallagher | Armour Kane | D. G. Swiers

Mr. Curran has been appointed Coast Division Manager with headquarters in Los Angeles and district offices in Ventura, Long Beach and Santa Maria. Mr. Curran, a native Californian, is a graduate of the University of California at Berkeley. He joined Schlumberger in December, 1945, working as a field engineer out of the Bakersfield office. In February, 1950, he was promoted to District Manager at Long Beach, and assumed his present position in January, 1952. Mr. Curran served in the U. S. Coast Artillery Corps from 1942 through 1945 with the rank of captain.

Serving as Ventura District Manager is C. R. Edgecomb, Jr. Mr. Edgecomb joined Schlumberger in December, 1943, and was promoted to district manager in March, 1948.



J. H. Gallois | C. B. Evans

G. C. Hepburn, Jr., newly appointed Long Beach District Manager, joined Schlumberger in June, 1947, after serving three years as lieutenant in the U. S. Navy.

Will Plasch has been made District Manager at Santa Maria. Plasch became a field engineer for Schlumberger in 1946. After an interlude in active duty with the U. S. Air Force, he returned to the company in 1951 at Ventura, and assumed his present duties in January of this year.

Mr. Bryan has been put in charge as manager of the newly created Valley Division with offices at Bakersfield. Bryan was graduated from the University of California at Berkeley, joining Schlumberger in 1941. In June, 1946, he was made District Manager at Coalinga and in May, 1950, was promoted to area representative in the San Joaquin Valley. The Valley Division is comprised of districts with offices located at Coalinga, Taft, King City, Sacramento and Bakersfield.

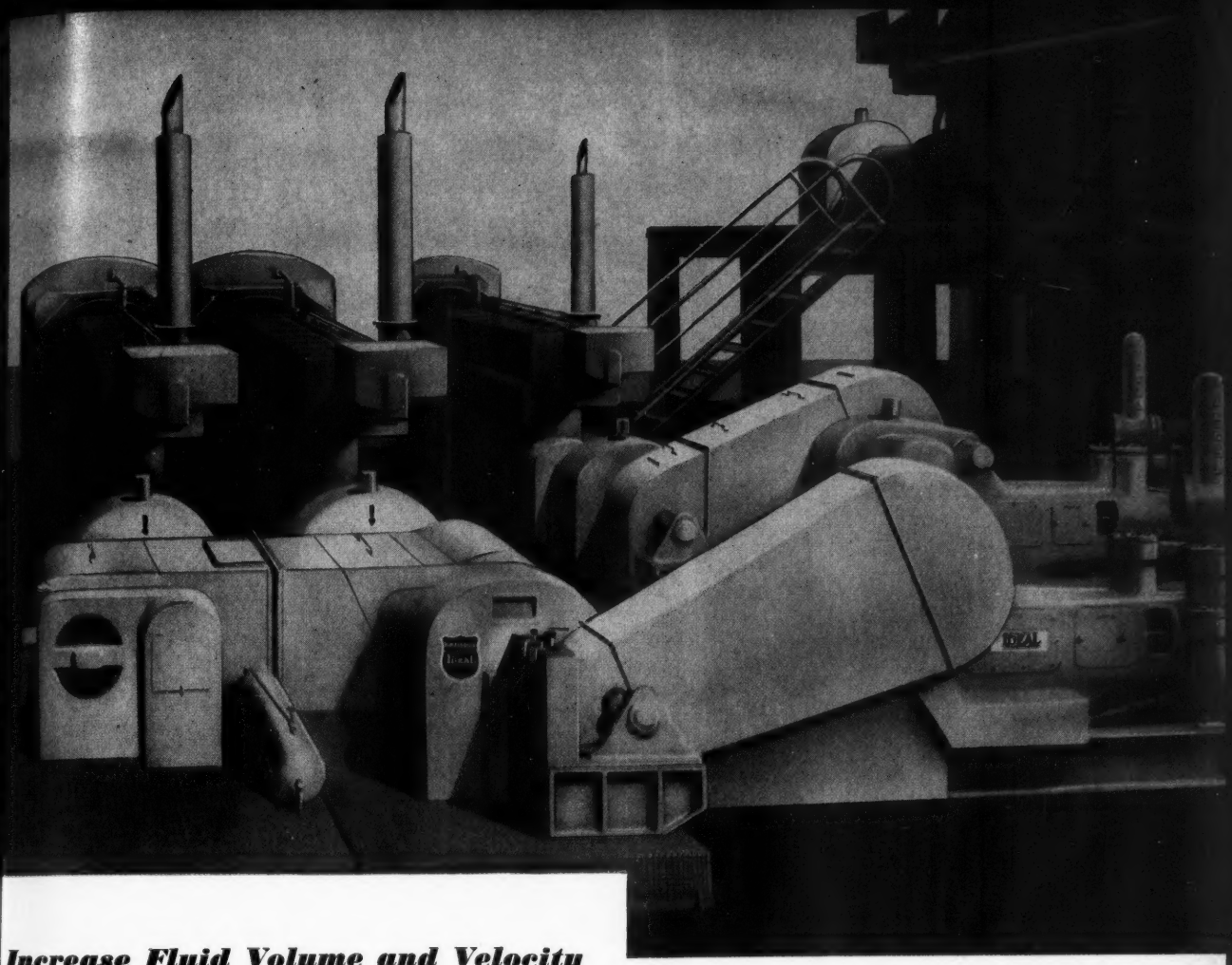
C. F. Gallagher, manager at Coalinga, has been with Schlumberger since 1946, assuming his present position in April, 1950.

Armour Kane, Taft District Manager, joined Schlumberger in 1943, was transferred from Texas to California in 1950 and promoted to his present position on February 1, 1952.

D. G. Swiers, with Schlumberger as Field Engineer since April, 1947, was made King City District Manager on February 1, 1952.

C. B. Evans, Sacramento District Manager, assumed his present duties in January, 1952, after service since 1948 as field engineer in the Long Beach and Bakersfield Districts.

J. H. Gallois, Bakersfield District Manager, has had a long and interesting career with Schlumberger. Born in Britanny, France, he re-



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Basic information on Ideal Independent Pump Drives is contained in the composite catalog. For application details on equipment to meet any specific requirement, write National Supply at Toledo.

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EXPORT: 600 Fifth Ave., New York 20, N.Y., U.S.A.; River Plate House, 12 South Place, London, E. C. 2

NATIONAL OIL FIELD MACHINERY AND EQUIPMENT • SPANG STEEL PIPE • SUPERIOR & ATLAS ENGINES

ceived a B.S. degree from the Sorbonne (Paris University) and did graduate work in electrical engineering at the Ecole Universelle of Paris. He came to the U. S. as a member of the Schlumberger organization in 1925, and in 1928 ran some of the first electrical logging surveys ever made. He recently was presented with his 30-year pin, one of the few Schlumberger employees to be so honored.

Whaley and Foss Advance at Sunray

William C. Whaley, Los Angeles, a vice president and director of Sunray Oil Corporation, has been transferred to the company's general offices in Tulsa, where he will become a member of Sunray's executive committee and chairman of the company's operating committee.

W. C. Whaley

This was announced in Tulsa by C. H. Wright, president of Sunray, who also revealed that R. E. Foss, Los Angeles, vice president for Sunray's West Coast Division, of which Whaley was formerly manager, has been named vice president and manager of the company's operations there.

In announcing Whaley's transfer to Sunray's executive department in Tulsa, Wright disclosed that he is giving up the chairmanship of the company's important operating committee, now to be headed by Whaley, and that Paul E. Taliaferro, Sunray director and vice president, will be vice chairman (co-chairman) of the group.

R. E. Foss

Foss, who will be manager of Sunray's West Coast operations, is a graduate of the California Institute of Technology, joined the former Barnsdall organization in 1935 as petroleum engineer and has been successively production foreman, drilling engineer, and vice president.

Whaley began his oil experience in 1910, having field, engineering and executive experience with various oil companies in California, Wyoming, Oklahoma, Texas, Montana, and Kentucky. He spent two years in the British West Indies and was overseas with the 162nd Aero Squadron during World War I. He became associated with the former Barnsdall Oil Co. in 1924, became a vice president of that organization in 1931 and was made general manager of that company's California operations in 1941. He joined Sunray in June 1950, as a director and vice president when Barnsdall was merged into Sunray Oil Corporation.

Whaley is widely known throughout the petroleum industry and is a member of the board of directors of the American Petroleum Institute, the Oil Producers Agency of California, the Western Oil & Gas Association, the Independent Petroleum Association of America and the San Joaquin Valley (Calif.) Oil Producers Association.

Whaley has contributed much individual effort to the voluntary conservation program of the oil industry and was instrumental in helping finalize plans for unitization of Guijarral Hills leases in the Coalinga Field of Fresno County, Calif. This unit operation is expected to start shortly.

He is a member of the California Club and the Los Angeles Athletic Club. Mr. and Mrs. Whaley, who have been living in Beverly Hills, arrived in Tulsa this week to become permanent residents of the oil community in Tulsa.

M J M & M Names Chief Geologist

George N. Keyston, president of M J M & &M Oil Co., announced the engagement of Lesh C. Forrest, to serve as Chief Geologist for the company. Forrest, after graduation from Northwestern University and graduate work at Stanford, spent six years with Richfield prior to the Second World War. Following his return from technical petroleum services with the GNQ Supreme Command, he was with CCMO Oil Company. Since 1948, he has served as district geologist and more recently as senior research geologist with General Petroleum, including direction of exploration in the San Joaquin, Cuyama and Sacramento Valleys.

M J M & M Oil Co., after forty years of continuous producing history on a single acreage in California's Midway-Sunset Field, was reorganized last year and now engages in a long-term planned oil exploration program with operating offices in Bakersfield and in Midland, Texas.

Delmar H. Larsen, formerly with Baroid Sales Division, National Lead Company, has opened offices in Los Angeles as a consulting chemical and petroleum engineer and patent agent. He was with Baroid for fifteen years, until that firm moved to Texas, and was Director of Research and more recently Manager of the Patent Department.

Oil business acumen of Ernie Pyles is well known to all who follow the petroleum industry. Ernie is also sagacious at the race track. He was one of the very few that had a chunk of lettuce on Miche, the gray streak from the Argentine, which won the $100,000 Santa Anita Handicap.

Nomads March Meeting

An explication of the P.A.D. Foreign Production Program for the current year was the feature address by W. H. Farrand at the regular dinner meeting of the Los Angeles Chapter of Nomads held at the Jonathan Club on Wednesday, March 12, 1952. Prior to this address was the showing of a moving picture "Budweiser Champion Clydesdales" by Dick O'Shanesy and Harry Sperb who were introduced by Bob Eiche.

At a short business meeting preceding the program, W. A. (Bill) Wilson of Web Wilson Oil Tools, Inc. was elected president for 1952 to succeed Earl Rees of the Byron Jackson interests who has been transferred to New York as export manager. C. C. Sutton of Oil Well Mfg. Company was inducted as an Associate Member by Bill Bettis of Johnston Formation Testers, Inc. and Hi Cassidy of the McCarty Company.

The president announced the passing away of Norman L. Dorn, vice president of Lane-Wells Company on March 2. Norm had long been a member of the Los Angeles Chapter of Nomads and will be sorely missed by the membership.

Announcement was also made of the appointment of Wallace A. Sawdon as Executive Secretary of the Chapter to succeed John Rife who had resigned because of press of other business. The members gave John a hand of appreciation for the work he had performed for the Chapter during the past four years.

The speaker of the evening, Bill Farrand, was introduced by W. H. (Bill) Sargent of Sargent Engineering Corp. He stated that even prior to Korea some American companies were having difficulty in purchasing enough oil country tubular goods to satisfy their requirements and then reviewed the situation that has obtained since.

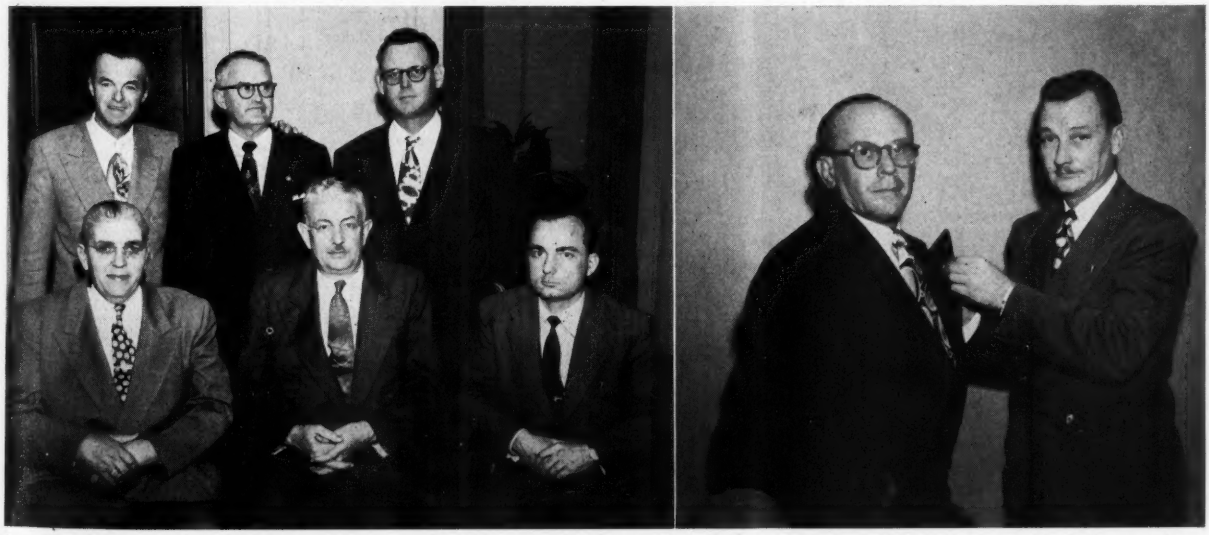
During the third quarter of 1951 the Controlled Materials Plan was put into operation and the procedure of allocation of materials was changed. As regards foreign shipment of materials, simply stated "the foreign petroleum companies apply to OIT for the amounts of controlled materials required. These amounts are added up and screened by P.A.D. and are used for estimate needs. The total is examined by the Foreign Petroleum Materials Committee and compared with the program of operations as compiled by P.A.D. and with the requirements justifications, program, past use and inventory as submitted by the companies and as known to P.A.D.

"The Foreign Materials Committee then revises and approves the proposed requirement developed by the P.A.D. in the light of the program. The request for allotment of the materials then goes forward to DAP through ECA-OIT and separately by P.A.D."

Mr. Farrand remarked that "We in the P.A.D. are almost acting in the capacity of lawyers in that we represent the industry to see that their claims for materials are well presented and we try to get the purchasing and supplying clients together to accomplish this program. We endeavor to serve the industry to the best of our ability."

In reviewing the production situation world wide, Mr. Farrand pointed out that "many areas are now devoting practically 100% of their activity to maintaining their current production rates. Some such areas are Trinidad, Peru, Argentina, and, for practical purposes, Colombia, although the latter country shows a slight increase in 1951. In the Far East, Indonesia showed little increase in 1951 but British Borneo increased about 20,000 B/D. The areas showing the greatest increases are Canada, which increased about 100,000 B/D; Venezuela which increased about 200,000 B/D; and the Middle East, which increased 159,000 B/D despite the shutting in of Iran.

"From this quick review, it is apparent that there are not many areas which may be expected to contribute increases for the 1952 program. However, we have calculated that the Western Hemisphere could increase 138,000 B/D if the drilling program were carried out. About 20,000 B/D would come from Canada, 106,000 B/D from Venezuela,



Speaker of the evening and foreign guests at the March meeting of the Los Angeles Chapter of Nomads. Seated, left to right:—Chas. T. Blanchet, Cal.-Tex. N.P.P.M., W. H. Farrand (speaker), Foreign Production Div., P.A.D.; Maurice Genini, Societe Cherifieme des Petrole, Rabat, French Morocco. Standing, left right:—Joe Atkins, Basrah Petroleum Co., Iraq; A. F. (Hoopie) Driskill, Iraq Pet. Co.; J. Jack Parks, Mene Grande Oil Co. en route to Venezuela. Not in picture F. H. Kopp, Aramco Oil Co. On right, Bill Bettis of Johnston Testers, Inc., putting Nomad pin on C. C. (Chilly) Sutton of Oil Well Mfg. Co. during induction of Chilly into the Los Angeles Chapter of Nomads.

10,000 B/D from Colombia and a couple of thousand barrels from the rest of the Western Hemisphere.

"In the Eastern Hemisphere, exclusive of Iran, we estimated that Iraq would increase 80,000 B/D, Indonesia 20,000 B/D, the Middle East as a whole 167,000 B/D and North Africa and other areas approximately 3,000 B/D. We thus calculated that the Eastern Hemisphere would step up its production 270,000 B/D.

"As regards the drilling, Canada would drill on the order of 2,000 wells; Venezuela 1424 wells; Mexico 482 wells; Peru 275 wells; Argentina 246 wells; and the rest of the hemisphere 464, totalling 4891 wells for North and South America, exclusive of the U. S. It was calculated that the Middle East would drill 153 wells; India and Pakistan 52 wells; the Far East 274 wells; Europe 67 wells; and the other countries 6 wells. This makes a total for Eastern Hemisphere of 552 wells. The total of 5443 wells compares with 4352 wells drilled in the same areas in 1951, an increase of 1091 wells or 25%."

Halliburton Announces Personnel Changes

Mr. L. B. Meaders, Vice President of Halliburton Oil Well Cementing Company has just announced that the Midland Division has been divided geographically and a new division headquarters established at Lubbock, Texas, the office being located in the Lubbock National Bank Building. Mr. C. T. McGuire is Division Manager of the Lubbock Division and Mr. J. L. Muse, formerly of the Midland Division, is Ass't. Division Manager.

Other recent transfers are:

Mr. W. L. Hughes, from Houston to Midland as Ass't. Division Manager of Midland Division.

Mr. Elmer Lawrence, from Great Bend, Kansas, as Ass't. Division Manager of Evansville Division.

Mr. A. O. White, from Flora, Illinois to Great Bend, Kansas, as Ass't. Division Manager of Wichita Division.

Mr. J. B. Jones from San Antonio, Texas, to Houston, Texas, as contact man.

Mr. W. A. Wallace, from Houston, Texas, to Duncan as Formation Testing Supervisor.

Norman L. Dorn Passes Away

Norman L. Dorn, vice-president of Lane-Wells Company, died at his home in Long Beach, California, March 2, 1952.

Norman L. Dorn

A native of Cleveland, Ohio, Dorn spent most of his life in Nevada and California. He has been connected with the petroleum industry for more than thirty years. Before joining Lane-Wells in 1937, he was with Shell Oil Company for eighteen years in a progression of positions leading to his capacity of Superintendent of Production in the Southern Division at Long Beach.

In addition to serving Lane-Wells as vice-president, Dorn directed the company's engineering activities from 1937 until February of this year, when he relinquished his title of Chief Engineer to become Vice-President and consultant.

Dorn was active in most of the affairs of the industry and held memberships in the American Petroleum Institute, the American Institute of Mining and Metallurgical Engineers, the Nomads, and the Petroleum Production Pioneers. He was also a member of the California Club of Los Angeles, the University Club of Long Beach, and the Virginia Country Club.

A graduate of the University of Nevada, Dorn served overseas with the 38th Engineers in World War I.

Charles Marner Resigns From Graver

Charles L. Marner, formerly vice president in charge of sales for Graver Tank & Mfg. Co., Inc., East Chicago, Indiana, has announced that he is no longer associated with that company. Mr. Marner, who is well known throughout the petroleum refining industry, began his career as a salesman with the original Graver organization during the early development of the petroleum producing and refining industry.

Although Mr. Marner's future plans are not fully developed, he intends to enter the consulting field dealing with the fabrication of petroleum storage facilities. Because of his past experience in the development of vapor conservation equipment, Mr. Marner is recognized as an authority on problems relating to gasoline storage and the conservation of vapors from such storage. For the present Mr. Marner is enjoying an extended vacation on his farm in the vicinity of Crown Point, Indiana.

The new secretary-treasurer of the San Joaquin Valley chapter of the American Petroleum Institute is Bob Torrey, according to an announcement by R. N. Ayers, chairman. Torrey, a resident of the West side since 1929, is with the Southern California Gas Company as a gas supply representative in Taft. William C. Bailey, secretary-treasurer of the valley chapter for the past four years, recently was shifted to the Santa Maria office of the Division of Oil and Gas. There he is now deputy supervisor.

James L. Aydelott, a son of original settlers at Hanford in Kings County, has been a recent participant in leasing plays in that area. Aydelott at one time was a famed baseball pitcher and at the present time is a scout for one of the major league baseball teams.

C. Leland Gunn, 42, is the new city manager of Bakersfield in the heart of of Kern County oil fields. The Bakersfield City Council approved hiring of Gunn at $12,500 a year. He was formerly city manager of Buchanan, Mich.

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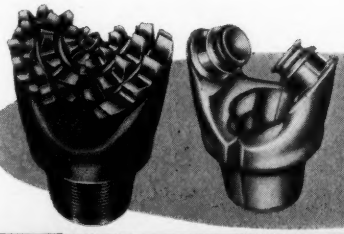
STRONGEST POSSIBLE ROCK BIT CONSTRUCTION

Cross-Cutters ride on Solid Forged, One-Piece Cutter Pin. An Exclusive H. C. Smith Feature for an All-Forged Cross-Section Rock Bit.

Gauge Cutters held by Solid, Drop-Forged Bridge Units.

All-Forged Body Segments Welded Solidly Together.



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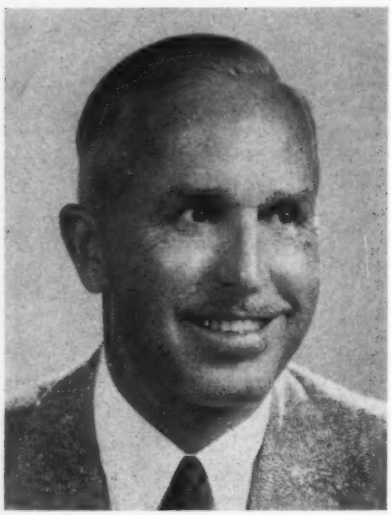
BRANCHES IN ALL PRINCIPAL OIL CENTERS
IN THE UNITED STATES AND CANADA

Shrimpton Leaves for So. American Trip

Dudley Shrimpton, Shrimpton Manufacturing & Supply Company, exclusive oil field distributor for Minneapolis-Moline engines, left Los Angeles on March 17th for a ten-weeks tour of South America.



Dudley Shrimpton

Dudley's itinerary calls for him to visit the producing areas in Venezuela, Colombia, Brazil, Peru, Ecuador and Mexico.

Bakersfield, the center of many leading oil groups, has an unique organization, known as the Association of Petroleum Wives. These ladies, along with their husbands, sponsored a "hard time" party. Guests placed their invitations at a facsimile of a window where the Feds gather income taxes. The hall was festooned with ancient newsprint streamers and tablecloths were made from the help wanted sections of newspapers. One of the features of the evening was the singing of a barbershop quartette made up of Lea Holcomb, Rex Grivetti, Richard Palmer and Robert Galeski.

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Signal Oil Company's genial and widely known Rudy Ahlport, manager of operations department, has retired after 21 years with Signal and 42 years of active business life in Southern California. When asked concerning his immediate plans, Rudy said that he and Mrs. Ahlport are looking forward to a three months trip through the South en route to Florida and possibly on to Havana, Cuba. On his return he plans to spend lots of time relaxing on his ranch at Palmdale, which has 400 acres in alfalfa, the same number in grain, and among the livestock, 250 head of cattle. Rudy junior will run the ranch during the time his father is away.

Gerald Robertson, John White and Erle Hume are among Thomas P. Pike Drilling Company toolpushers actively in charge of rigs working in the Elk Hills field.

In the coastal and northern district, pushers in charge of contract drilling jobs include Glen Boller, Mitt Lynch, Chet Rhoades, Clarence Cramer and Earl Kirkland.

Toolpushers Charles Horn, Virden Parker, Ralph Smith, Shorty Baker and J. C. Martin are working in San Joaquin Valley area.

Tyler F. (Bud) Woodward, enterprising president of Southern California Petroleum Corporation, Los Angeles, has returned to duties on the Pacific Coast from Dallas, Tex., where he wound up a deal whereby his organization acquired important producing properties.

Richard Dye has joined Oceanic Oil Company as Los Angeles as attorney. Previously, he was for five years in the land lease department of Standard of California, where he was primarily interested in preparation of contracts on exploration and production. He became a member of the California State Bar in 1947.

Dan McCarthy of Socony-Vacuum in New York did not extend his business visit in Los Angeles long enough to celebrate St. Patrick's Day in the City of the Angels. However, upon his return to the Big City, friends Pacific Coastwise heard from him with the inimitable McCarthy greetings.

Bowen Appoints United Drilling Service Canadian Agent

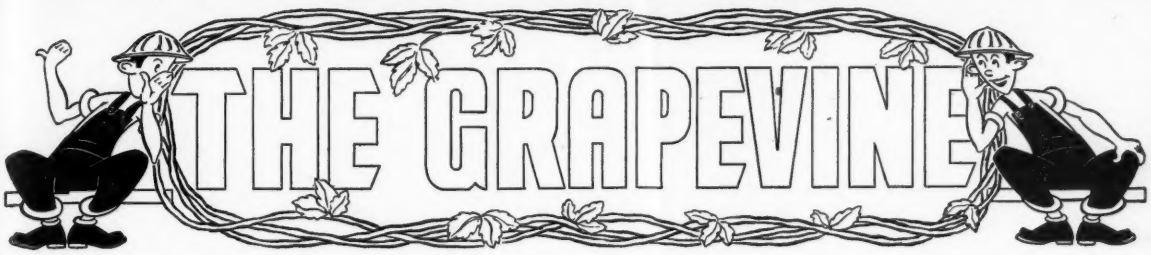
H. E. Snelson

Paul Bowen, President of Bowen Fishing Tool Company, recently made a trip to Canada and completed arrangements for the United Drilling Services, 9925 77th Avenue, Edmonton, Alberta, Canada, to maintain a rental stock of Bowen fishing tools and specialties and to handle sales of Bowen tool parts.

H. E. Snelson, Owner and Manager of United Drilling Services, is well qualified to represent the S. R. Bowen Company in this area, as he spent several years in Canada with Hughes Tool Company.

F. R. Schmieder was named to head the 1952 oil public relations campaign at a special meeting at Bakersfield of the Kern County Oil Information Committee.

Sometimes I'm known as "Spider" Van Loozen on account of I just can't stop talking and telling folks how wonderful that Web Wilson Power Tubing Spider really is. ★ Just hook it up to your air supply, and you're all set for running tubing faster than you ever dreamed of, with perfect safety, and it's practically a "life time" deal. ★ If you knew how many are already being used by big name operators, you might get interested too. ★ Maybe you ought to give me a call at MEnlo 4-6621 (Los Angeles Exchange) and let me tell you just how much time and money you can save on your tubing jobs.



Chatting with Elmo Greve, the young Tide Water Associated pipe line field manager, the other day, we discovered that he was a native of the far northern village of Coalinga, one of our many erstwhile hideouts. So, naturally, we asked him if he knew Gene Arnold? Bless our soul if the chap doesn't up and confess—a bit shamefacedly, we noticed—that he was Gene's cousin. Whereat we muttered a few condolences and the usual platitudes about this being a small world after all. Then we asked him if he knew Tom Hickey and his good looking brood; Al Brown and his autocourt; Bob Cook, the Strata Seal magnate; and Bill Kinder, the present mayor of Garland, Texas. He knew them all, of course, either personally or by repute, and we gave them quite a going over after which we wandered off into all sorts of abstruse but interesting avenues of conversation.

It was at Al Brown's lab in Coalinga back about 1927 that our brand new Dodge roadster was rudely attacked and shamelessly clawed by a road runner. The bird became a bit curious, climbed on the hood, saw his reflection in the front windshield, didn't like it a bit, and promptly launched a vicious attack. Before he was through the nice shiny paint job had been rasped up abominably and the entire jalopy had a distinctly second-hand appearance. Al, who was district gauger for Union Oil Company in the Coalinga area at that time was by way of becoming a mogul even then. He had an uncanny sense of investment values and we wouldn't be at all surprised if by this time he owns the major part of Coalinga.

Returning to Elmo Greve, however, we should point out that this is the lad who supervised the X-ray testing of the welds on Tide Water Associated's dual submarine line at Goleta, and from him we received quite an education in the identification of a variety of welding flaws. Elmo is a graduate mechanical engineer from California State Polytechnic, has been with Tide Water Associated for some ten years, and is one of the finest badminton players in town. Once he ran up five points with a live humming bird before he realized that his badminton birdie was stuck in a tree.

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Take a good look at this picture of a Jensen Pumping Unit. It **could** be on your well—saving you money with each nod of its walking beam.

Jensens are just naturally **rugged** pumping units that cut production costs, cost less to buy, and operate cheaper. A Jensen is RELIABLE . . . reliable because 30 years of production know-how are built-in. And Jensens are easily installed, easily counterbalanced.

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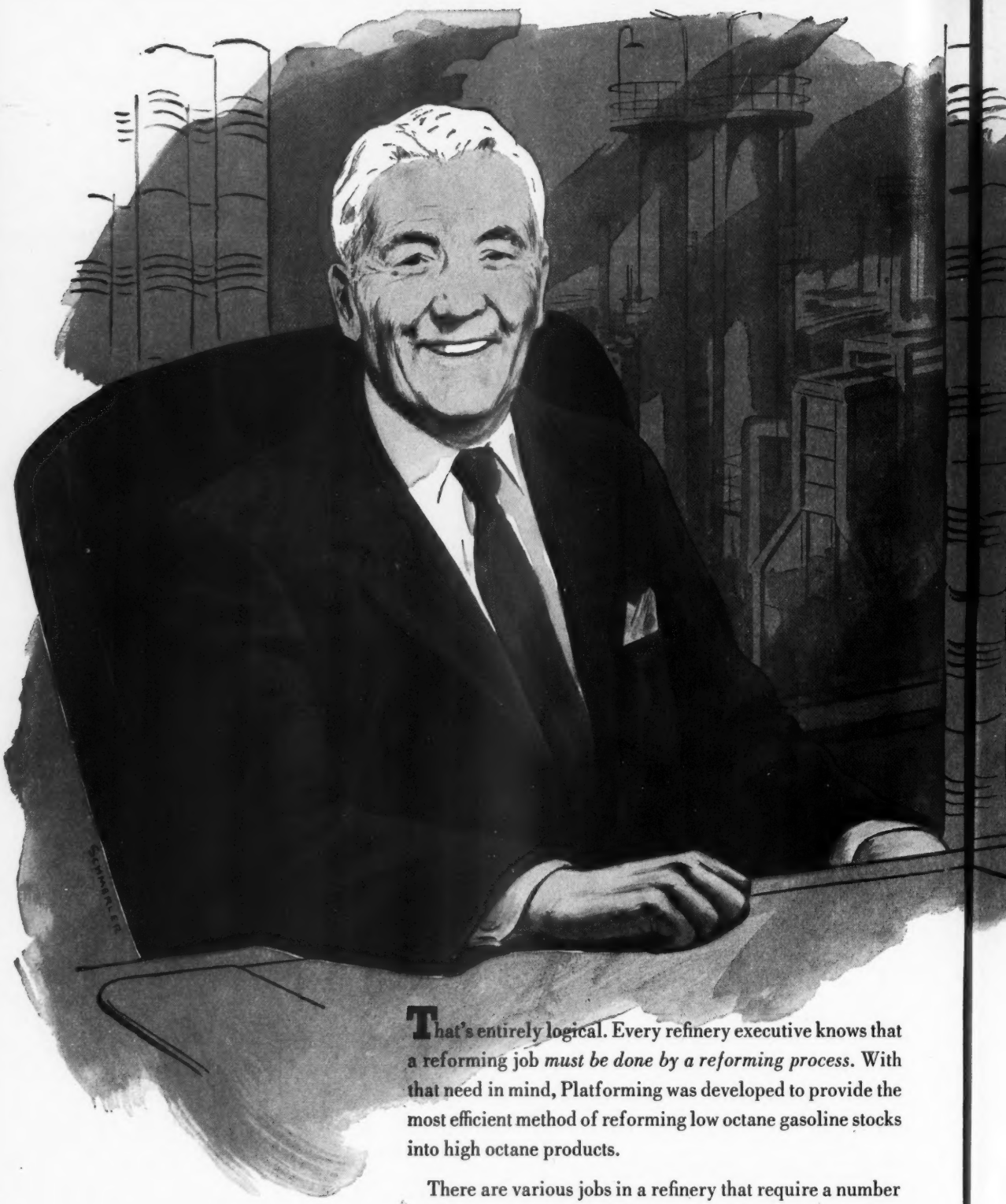
Another interesting TWA chap into whom we bumped down Wilmington way was B. R. "Barney" Swanson, pipe line foreman who also hails from the San Joaquin Valley. Barney first opened his eyes to the light of this wicked old world in the lively bailiwick of Hanford and after a good look around, decided to stay. He began work for Tide Water after he graduated from Stanford 10 years ago and has the appearance of being very happy with the choice. He now lives in Long Beach and is a sharpie, we are told, on the tennis court. His overhead smashes are reputed to be terrific, particularly when he hits the ball, and his placement volleys are so deceiving that where they are going even he doesn't know. Barney is the proud papa of a daughter, named Nancy who, he is quite certain will one day be the Nancy Chaffee of the Long Beach district.

Out to Telegraph Road not long ago for an elevating few minutes with Louie Monson, the emulsion doctor who functions as chief chemist for Tret-O-Lite. We discussed water in oil emulsions, oil in water emulsions, and all sorts of strange phenomena about which your willy correspondent made a very plausible pretense of being informed. Eventually, however, the conversational binge veered to the subject of words and we were right at home, for if we do say so ourself there are few people who know so many words and so little about what they mean. It turned out that Louie's hobby is the derivation of names, surnames, that is, and he has a mighty interesting collection of data about the source of sundry monikers. Our own hobby is the etymology (must



That's entirely logical. Every refinery executive knows that a reforming job *must be done by a reforming process.* With that need in mind, Platforming was developed to provide the most efficient method of reforming low octane gasoline stocks into high octane products.

There are various jobs in a refinery that require a number of different processes. Where reforming is needed, Platforming fits the requirement perfectly. It is a true reforming process . . . specifically designed, engineered and constructed to meet the particular needs of that job.

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look that up sometime) of petroleum words.

Didn't see Glenn Camblin around while we were out there but that could very easily be because he saw us first. However, we did find out that he is still going full steam ahead. In his spare moments Glenn devotes himself to the higher branches of agronomy, economy, and animal husbandry, and it is reported that his cattle yield more T-bone steaks per cubic foot of steer than any other herd this side of Texas.

Another chap who gets a bang out of word derivations, by the way, is Pete Slater, the Kobe sales chief. Pete is a studious sort of person who seems to have the happy faculty of correlating work and pleasure. His extraneous interests are designed to improve his work performance, if you know what we mean, and his interest in words no doubt stems from his study of advertising methods and values, in which words are the principle stock-in-trade. Of course, Pete occasionally plays a game of what he laughingly calls golf for genuine relaxation and the parabola described by his slice is as pretty a thing as you would care to see.

The recent election of Bill Wilson to the top spot in the Los Angeles Nomads is an excellent choice. Bill is a cleancut young chap with a good academic and industrial background, and a nice crisp enunciation. He should be a proficient platform performer with a few meetings under his belt and should add definitely to the substance and function of the local chapter. He has only one serious weakness so far as we know. That is, he wears sport shirts that are even noisier than the shrieking affairs affected by George Trembley and Bill Farrand. In fact, it has been stated of his sport shirts by one of our more accurate staters that "nothing since the passing of Haley's Comet has done so much to increase the national astigmatism and promote the sale of smoked glasses." Bill, incidentally, plays the odd game of golf and we can assure you that the word "odd" is by no means used casually here. Indeed, if you follow along in the furrow he makes as he proceeds from trap to trap you could certainly be forgiven for thinking that it was seeding time.

MEET THE CHAMP

You may have noticed that certain patrons of Keans, Springmann, & Stipek, Inc., in the GP Building, remove their shoes before crossing the threshold and entering the inner sanctum of this noted lands and leasing firm. These, for your information, are domino players simply paying deference to the grand past masters of the tile tossing pastime. You see, Reg Keans and Ray Stipek were the first Petroleum Club domino champs and to the lesser lights in tile tossing circles they have bright halos around their venerable domes and are entitled to a considerable measure of respect. Reg, the front third of the K. S. & S. establishment, is a tall, interesting looking chap with becoming grey hair and a ready smile. He is smart, fast rationalizer, and is definitely what you might call "quick on the mental draw." He was born in Portsmouth, New Hampshire, but early realized that California was really the place for him. As soon as he could make himself understood, therefore he packed his parents off to the Golden State and in no time at all was settled in Compton. There, Reg inhaled so many gaseous hydrocarbons that he became practically intoxicated with the oil business. He began work with Union Oil Company in 1919 as a steno at Avila refinery; thence migrated to the gas department in both field and office work. Meantime, he improved the shining hour by taking a law course and before he quite realized what was happening found himself up to the collar button in lands and leasing. At the time he left Union in 1947 to organize the K. S. & S. concern, he was assistant manager of lands. They began independent operations in the Petroleum Building but recently moved over to the hostelry of the flying horse and give the appearance of being much in demand. Reg, in his spare moments, likes nothing better than to hie to the beach and angle for albacore, yellowtail, finnan haddie, and the occasional can of sockeye salmon. He claims that the biggest fish he ever caught was in a domino game but he positively refuses to name either the person or the place.

Speaking of the Web Wilson scion reminds us that we haven't seen our old buddy, By Landis, for a long time. A few years ago we found much to our surprise that By and Bill Bettis were our fraternity brothers in Delta Sigma and we have all been thicker than thieves ever since. Way back about 1923 we were initiated into this mystic order in the dark room down at Union Oil Company's research lab in Wilmington. The officers who performed the sacred rite were Jerry Rusk, now asphalt expert for General Petroleum Corporation, and Waldo Moore, the Cavins master mind. Jerry used to write a wisecrack page for the fraternity magazine — maybe he still does—and he did an excellent job of it. Never could understand why some oil publication didn't collar him to handle the back page. He could sure improve on some of them. Waldo Moore has in the meantime become a sort of equipment magnate down there at Long Beach and we would probably have to commune with him through a string of secretaries and other minions now if we even wanted to just say hello.

We join in the general commendation for Johnny Rife on the completion of a very effective term as executive secretary of the Los Angeles Nomads and we are pleased no end that Wally Sawdon has been appointed as his successor. Wally is one of the finest people that ever lived. He sort of grows on you over the years like your favorite old hat, quietly and unobtrusively, and one inclines to accept him a bit casually. However, he is so thoroughly genuine and so anxious to be helpful and constructive in whatever he says or does that he is just—well, he is just tops, that's all. As a matter of fact, if we had anything to do with it, that's the sort of chap we'd elevate to life membership in the chapter. Wally's one distinctive characteristic, besides his complete unselfishness, is that he always carries a mentholated brand of cigarettes in the left side of his cigarette case and the straight tobacco kind on the right. It isn't that he personally has a particular craving for menthol but the guy is just so solicitous that he

would be embarrassed if he ran into a smoker of mentholated fags and couldn't oblige him. Again we say, and without equivocation, that Wally is one of the industry's finest.

The CNGA old timers night out at the Legion auditorium in Newhall on the evening of March 7 was one of the most entertaining whingdings ever staged by the association, thanks mostly to the organizational genius of Ed Millett, Jr., the livewire secretary. Almost 300 sat down to a delectable dinner during which, out of deference for the old timers, George McLaren, the current prexy, turned the gavel over to George Ratcliffe, the only two-term president in CNGA history. George, a top ranking Baroidian, recently made vice president of National Lead Co., first officiated as president of the organization in 1926, the second year of its existence. As might be expected, the evening was given over to reminiscing over old times and operators and a series of skits did a great job of lampooning some of the better known old timers.

The **piece de resistance** of the soiree was a resumption of the old saw playing rivalry between Cy Rubel and Herb Eggleston which we ourself originally instigated many years ago through a column in this very magazine. This time there was no interruption and the players gave a fine account of themselves. They are both really high class performers on the serrated Strad and they surprised the large audience no end by the caliber of their work. In fact, we are told that since the conclusion of this contest, which by the way was declared a draw, the number of hardware stores that have been burglarized is nothing short of astounding.

One of the particularly interesting skits on a long and enjoyable program was entitled, "Forever Blowing Bubbles," and depicted episodes and events in the colorful career of Julian Campbell, the so-called Tommy Edison of Long Beach. Julian, as everyone knows, has been bubbling gas through experimental absorption columns almost since the beginning of time, and his pockets are always stuffed with recently invented-gadgets wherever he goes . . . In this act, the stage was literally enveloped in plastic bubbles while Tom Taggart, CNGA's official accordionist wafted out the well known "Surface Tension" aria. Tom, in case you don't know, was made official accordionist of CNGA because they figured he would play whether they made it official or not.

Among the guests were a host of past presidents and some very distinguished out-of-towners. From the Products Pipe Line division of Shell Oil Company in New York, for example, came Sid Smith, a long time member who flew out especially for the occasion. Walter Podbelniak of Podbelniak, Inc., Chicago, was also on hand and his famous analytical machine was amusingly kidded by Bill Schaufleberger in a burlesque lecture. Bill used a screwball version of the Pod and a strip tease film to do a profound dissertation on curves. The latter finally became so hot they blew up the machine.

Another short act showed the 18th hole in an oldtime June Frolic with Tom Taggart, Frick Gibbs, Val Cassaday, and Frank Colton, four hotshot golfers, in violent competition. They were played by Bill Rifenberick, Industrial Engineering; Marion Fort, Pacific Light & Gas Supply; George Dieter, Fluor Corporation; and Ray Todd, P.G.L. Supply, respectively. The thing broke up in an agony of invective and stuff, mostly flying clubs, when Frick Gibbs, needing a one-putt to win, was suddenly serenaded by a German band. After this, a serious note was introduced in the form of a very beautiful pageant, entitled, "CNGA Goes To War."

Then George Tyler and Ed Millett relived a dramatic moment in their respective careers, that is, when George resigned the secretaryship and Ed took over. The latter had been assured that the job was a pipe but subsequent events gave the lie to that story. Anyway the skit faded out in an insistent jangle of ringing phones and a shower of unanswered correspondence. Tom Taggart's quartet, billed as the "sons of pitch" included such noted yodelers as Lefty Cowger from Taft, George Pridham from Whittier, and Lynn Ross from Coalinga. These

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lads rocked the house with their renditions of popular selections. A panel of experts then parodied the "Can You Top This?" radio show and the consensus was that they had topped the radio version. Moderator of this affair was Henry Wade of Stearns Rogers Co., Denver, Colo., who was actually master of ceremonies for the whole business and a mighty good one, too. His panel was made up of Andy Kirk, Cal Southern president; Bill Robinson, The Texas Company chief chemist; Walter Podbelniak, of the Chicago firm by the same name; and Ham Bell, the noted raconteur from the Bell & Burden stable. This seance created no end of fun and was without doubt one of the bright spots of the evening. The entire program from beginning to end was splendiferous and it must have had a salutary effect on the participants because we have observed a decided rise in natural gas production, beginning on March 8.

Petroleum Equipment Salesmen Form Association

A new association of petroleum equipment salesmen is being formed for the purpose of improving personal salesmanship and bettering understanding of customers' problems. The new organization is spear-headed by D. H. Greenwood of Falcon products.

The first organized meeting will be held Monday noon, April 7th, at the Nikabob Restaurant when a prominent sales executive will address the group. All interested petroleum equipment salesmen are invited to attend the April 7th luncheon meeting which will be followed regularly every month with similar meetings addressed by prominent sales, buying and other related executives.

Temporary officers of the new organization, to be known as the Petroleum Equipment Salesmen's Association, are: President, D. H. Greenwood (Falcon Products); 1st Vice President. Al Laskin (Keenan Pipe & Supply); 2nd Vice President, Joe Schlarb (Chiksan); Secretary, Dave Stevenson (Mason-Neilan) Treasurer, Jack Human (Associated Piping & Engr.); Directors, Jim Kennedy (Spang-Chalfant), Bob Glascock (Walworth), Charles Smith (Allied Supply).

The new organization feels that its plan will be distinctly beneficial to the advancement of petroleum equipment salesmanship and indicates that it is the only organization of its kind.

Illustrated in above photograph: (front row, L to R): Frank Summers (Republic Supply), Jim Kennedy (Spang-Chalfant), D. H. Greenwood (Falcon), Joe Schlarb (Chiksan). Al Laskin (Keenan Pipe & Supply), Dick Olsen (Homestead Valve). (Back row, L to R): D. C. Lance (Petroleum World & Oil), Bob Glascock (Walworth), Jack Human (Assoc. Piping & Engr.), Dave Stevenson (Mason-Neilan), Bud Russell (Republic Supply), Paul Benner (OIC Valves), Harry Cleeland (Oil Well Supply), Al Pruett (Howard Supply), Charles Smith (Allied Supply).

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Field Development

Leutholtz Test Quits

On ground one mile east of the Santiago field in Kern County, Richfield Oil Corporation's Leutholtz No. 45-14 wildcat on Sec. 14-11n-23w in the Leutholtz sector has thrown in the towel at 7720 ft. Nothing of commercial interest evidently was uncovered to bottom.

Newhall-Potrero Campaign Continues

Sunray Oil Corporation is continuing its important development campaign on the Rancho San Francisco in the Newhall-Potrero field. There it is making hole below 1000 ft. with its RSF No. 104-3 on Sec. 28-4n-17w. During 1951 the company completed eight wells in the field. As of December 31, 1951, the company held a total of 3,130,501 net oil prospect acres in the United States and Canada, compared with 2,990,614 net acres at the close of 1950.

La Habra Heights Project Finaled

Rothschild Oil Company's Nuckols No. 2 on Sec. 30-2s-10w in the Sansinena area at La Habra Heights has been completed on the pump at a total depth of 3650 ft. Initial yield was 44 barrels a day gross of 16.2 gravity oil, cutting 35 per cent water, mud and sand. The 7-in. casing is set at 3648 ft.

Castaic Hills Wins New Laurels

Development in the Castaic Hills of Los Angeles County continues to march forward in clock-like regularity. The latest well to put out oil there is Continental Oil Company's Harding No. 32-26 on Sec. 36-5n-17w. It started off from 5438 ft. at the rate of 60 barrels in 4 hours and then was shut in. Her-Bell Drilling Company put the well down, which has 7-in. casing set at 5427 ft.

Wheeler Canyon Wildcat Abandoned

Luck failed to attend Union Oil Company with its Ex-Mission No. X-8 wildcat on Sec. 25-4n-22w at Wheeler Canyon, Ventura County, and the project has gone into limbo. The drill stopped at 4551 ft. Ex-Mission No. X-6 on Sec. 30-4n-21w has begun operations.

Tejon Hills Well Finaled

In the shallow Tejon Hills field, E. M. Easton has added another producing well on Sec. 15-11n-18w. His No. 6 was completed on the pump at 475 ft. for an initial output of 35 barrels of 29 gravity oil in 20 hours, cutting from 10 to 20 per cent. Santa Margarita oil sand was topped at 449 ft.

Sunset Beach Try Seeks Extension

Algonquin Oil Company is all set to start the drill in its No. 2 extension test well on Sec. 29-5s-11w near the intersection of Los Patos and Algonquin streets at Sunset Beach, Orange County. The derrick is a short distance east of the company's No. 1, which clicked with a new fault block discovery last September. No. 1 was drilled to a total depth of 4639 ft. and was plugged back to 4500 ft. Interval open to production extended from 4446 to 4489 ft.

Universal Continues Coalinga Wildcatting

Another Gatchell sand test is under way in the northeast Coalinga area of Fresno County with Universal Consolidated Oil Company the sponsor. The venture, Seaboard-SP No. 45-31 on Sec. 31-18s-16e, is north and east of the company's recently abandoned No. 27-31, which was carried to 9606 ft. with fish left in hole. The lease block spreads over more than 2500 acres in the area held jointly by Universal and Seaboard Oil Company.

Edison Groves Field Widened

Trico Oil & Gas Company has chalked up its first production in the Edison Groves area, east of Bakersfield. Its State Exploration-Portals Comm. No. 2 on Sec. 33-29s-29e came in on the pump from 3608 ft. for an initial yield of 97 barrels of 13 gravity oil in 16 hours, cutting 34 per cent, which included some wash oil. The Olcese was topped at 3570 ft. Gene Reid Drilling Company drilled the successful field extender.

Cuyama Wildcat Drills On Down

Rather than testing to a relatively shallow depth, it appears at this writing that The Texas Company plans to take its wildcat in the south Ballinger sector of the Ventura County portion of Cuyama Valley on down for a more conclusive look at formations there. The venture, Blue Diamond No. 1 on Sec. 10-9n-24w, at present is poking ever deeper at 4360 ft. This well has the close attention from both outside and within the petroleum industry.

Arvin Field Test Extends

The Texas Company has widened production on its George lease north of the Arvin field proper with completion of No. 4. The well, on Sec. 23-31s-29e, was completed at 6882 ft. for 40 barrels of oil and 60 barrels of water in 18 hours. Open is the interval of 6820 feet and bottom.

Los Angeles Basin

Anaheim Test Dry

Steele Petroleum Company's Anaheim Industrial No. 1 test venture on Sec. 3-4s-10w near the town of Anaheim in Orange County has been abandoned at 7755 ft. Drilling evidently picked up no commercial shows. At West Newport, Solano Oil Company has spudded and is drilling ahead with its Solano No. 1 test on Sec. 12-6s-11w. Texaco is working with its City of Fullerton No. 1 wildcat on Sec. 36-3s-11w in the Buena Park area, and Irvine NCT-One No. 1 on Sec. 29-4s-8w in the Santa Ana Mountains.

West Coyote Hugs Limelight

The West Coyote area of Orange County continues to attract new interest exemplified by the starting of Atlantic Oil Company's McNally No. 1 on Sec. 24-3s-11w. The well is on a 72-acre piece obtained from Ted Sterling and Paul Trousdale, who hold a total of 1736 acres in the sector. The Sterling-Trousdale properties are at the west border of the West Coyote field, where Standard recently successfully carried several wells to the lower Emery zone for new production. Several other operators have recently scored successes with wells drilled to the new zone. Sterling and Trousdale were chiefly responsible for the excitement generated at Castaic Hills some months ago.

Chatsworth Wildcat Dies

On the Porter Estate property in the Chatsworth area of Los Angeles County, Sunray Oil Corporation put down its No. 81 wildcat on Sec. 16-2n-16w to 8088 ft., but pulled out when showings were absent to bottom.

Honor Rancho Well Flowing

Bringing production at Castaic Hills and in the Honor Rancho field even closer together, The Texas Company has completed its Honor Rancho NTC-One No. 9 on Sec. 6-4n-16w flowing initially at the rate of 450 barrels of 35.2 gravity oil a day through a 14/64-in. choke.

Athens Well Completed

Fowler Drilling Company has completed Bradley & Menveg's Halverson No. 1 well on Sec. 18-3s-13w in the Athens-Rosecrans field at a bottom of 4280 ft. The well at last reports was flowing at the rate of 160 barrels of 36 gravity oil daily, cutting 12 per cent.

The Texas Company's Matern Two Lease Well No. 12 in the Santa Fe Springs field. Left to right: H. M. Le Gate, floorman; C. C. Pennington, floorman; E. Mathews, derrickman; G. Kaiser, head well puller.

Canoga Park Wildcat Resumes

After a period of inactivity due to inclement weather, W. J. McCarthy has resumed work with his Frank Knapp No. 1 test on Sec. 4-1n-17w in the Canoga Park area. The venture at present is below 600 ft.

Puente Test About To Dig

About to spud is the wildcat undertaken by Richfield Oil Corporation in the Puente area. Known as Peel No. 1, the well is on Sec. 10-2s-10w near Pass Covina road and Valley boulevard.

Pico Canyon Wildcat Digs

Having finished a fishing job caused by drill pipe sticking at a depth of 5630 ft., Los Nietos Company is now drilling ahead below 8300 ft. with its Odeen No. 1 wildcat on Sec. 12-3n-17w at old Pico Canyon. Santa Fe Drilling Company is contractor.

El Segundo Test Redrills

On the City of Los Angeles Hyperion property at El Segundo, Edwin W. and Harold R. Pauley's No. 1 test on Sec. 11-3s-15w is redrilling at 5360 ft., following a plugback job from 7332 to 4536 ft. Contract driller is Fowler Drilling Company.

Hasley Test Digs On Down

In the Hasley area no great distance from the Oak Canyon field, Contractor K. L. Kellogg & Sons is drilling through shallower formations with Ohio Oil Company's Douglas No. 1 wildcat on Sec. 4-4n-17w.

Long Beach Test Started

The Texas Company has started its Gilbert Brown No. 2 test on Sec. 28-4s-12w near State street and Termino avenue at East Long Beach. The company's Gilbert Brown No. 1 on the section was completed at a plugged depth of 8275 ft. for 35 barrels of 29.1 gravity oil, cutting 12 per cent. Total bottom is 8535 ft.

Coastal and Northern District

Contra Costa Wildcat Quits

All tests apparently reacted with non-commercial vigor with the John Baldwin, Operator, Baldwin-Soite No. 1 test on Sec. 17-2s-1w at Willow Pass, Contra Costa County. Prospecting went to 5505 ft.

Rio Vista Well Completed Flowing

In the Rio Vista gas field in Sacramento County, Brazos Oil & Gas Company has finaled its Campi No. 2 on Sec. 19-4n-4e for a flow of 3,400,000 cubic ft. of gas through a ⅜-in. bean. The Nortonville shale was topped at 3505 ft., Domengine at 3752 ft., River Island sand at 4161 ft., Capay shale at 4243 ft. and Midland sand at 4422 ft. Total depth of the well is 4425 ft. Standard of California has spudded its Borba Comm. No. 4 well on Sec. 18-4n-4e. teresting wildcat test, which is known as Sloan No. 3 and is rigging

Holser Canyon Wildcat Rigged

Crestmont Oil Company is ready to start the drill in Holser No. 6, a test on Sec. 14-4n-18w in the Holser Canyon area, Ventura County. The Texas Company as yet has not begun operations with its Elkins No. 1 wildcat on Sec. 7-3n-19w in the Bardsdale area.

Oxnard Well Set To Drill

All set to drill is San Miguel Oil Company and Andrew Lucas' Culbertson No. 2 on Sec. 6-1n-21w in the Oxnard field. Location is 105 ft. south and 960 ft. west from the northeast corner of the Culbertson property.

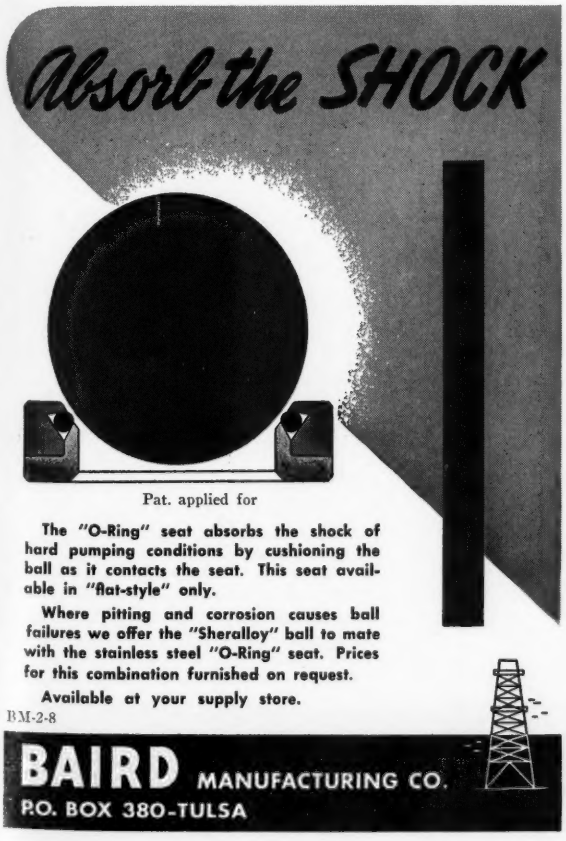
Piru Test Rigging Up

Oceanic Oil Company's expanding drilling campaign includes an in- up on Sec. 34-4n-18w near the town of Piru, Ventura County. Dunlap & Graham of Long Beach are contractors.

Sisquoc Test Commences Work

A half dozen miles northwest of wells producing at Olivera Canyon, Honolulu Oil Corporation is moving ahead with its Rancho Sisquoc No. 1 test on Sec. 5-9n-31w, Santa Barbara County. Interest in the well is shared by Honolulu with Sunray Oil Corporation.

It is interesting to note that Sunray developed more oil and gas reserves, produced more crude oil and natural gas, manufactured and refined more petroleum products, had a higher gross income and net earnings and paid more stockholder dividends in 1951 than in any previous year of its 31-year-old history, according to the company's annual report. In California last year Sunray participated in drilling nine exploratory wells and this type of work



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currently is progressing in a number of areas.

Guadalupe Adds Wells

Thornbury Drilling Company has completed three new wells at Guadalupe in San Luis Obispo County. They are LeRoy No. A-4, No. A-5 and No. B-1 on Sec. 2-10n-36w. No. A-4 and No. A-5 are pumping 75 barrels of oil each a day from respective depths of 2710 and 2665 ft. No. B-1 is pumping from 2810 ft., with representative gauge not yet available. Officers of Thornbury include William M. Thornbury and W. H. (Bill) Geis.

Santa Paula Test Drilling

Seeking to extend production at Santa Paula Creek in Ventura County, F. Robert Reynolds is drilling below 800 ft. with Jocko No. 1 on Sec. 21-4n-21w. Surface pipe was set at 106 ft.

This is a pretty battered looking instrument, and it should look badly worn, as it ran 700 days while drilling 60,000 feet of hole.

About all that is left of the original tire is the hub, but according to the contracting firm of Hayes & Sprague, THE MARTIN-DECKER HYDRO-MECH TORQUE GAUGE functioned successfully throughout this entire run.

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Mohawk Sponsors Yolo County Tests

Mohawk Petroleum Corporation has two interesting extension test wells working in Yolo County. Winters Comm. One No. 1 on Sec. 13-8n-1w is a little less than one-quarter of a mile northwest of the company's Winters Comm. 8 No. 1, a successful northwest extension of the Winters gas field. Shell Pleasant Creek Unit 2 No. 1 on Sec. 8-8n-1w is designed to extend Pleasant Creek gas production to the east. Location is three-quarters of a mile from Mohawk's Pleasant Creek 5 No. 1, a south field extender.

Montalvo Wildcat In

Standard Oil of California's Pidduck No. 1 wildcat in the Montalvo area near Oxnard has been completed on the pump for 72 barrels a day through a 28/64-in. bean. The well, on Sec. 20-2n-22w, went to 10,265 ft. before redrilling to 9913 ft.

Atop Reyes Peak, the company's Hattie Russell No. 1 on Sec. 11-6n-23w continues to drill deeper below 9800 ft.

Monterey County Wildcat Drilling

Approximately three-quarters of a mile south of The Texas Company's Orradre lease in the San Ardo field, Monterey County, Texaco is drilling below 800 ft. with its Labarere NCT-3 No. 1 wildcat on Sec. 15-23s-10e. Three miles south of King City, the company is working in the preliminary stage with its Basham No. 1 test on Sec. 36-20e-7e.

Peachtree Valley Wildcat Hunts Oil

Union Oil Company is drilling at a relatively shallow depth with its Mee No. 3 wildcat well in Peachtree Valley about 17 miles north of the San Ardo field, Monterey County. Location is some miles northwest of Mee No. 1, which found nothing in a journey last summer to several feet below the 6000-ft. level.

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San Joaquin Valley

Belgian Anticline Project Flowing Oil

A tip of the fedora to Union Oil Company for performance of its successful extension test on the Belgian Anticline near McKittrick. The well, CCMO No. 84-24 on Sec. 24-30s-21e, at last reports was flowing at the rate of 1045 barrels of 36.9 gravity oil a day through a 20/64-in. orifice. Gas yield is 387,000 cubic ft. daily. Less than 500 ft. north of the field extender, Union is drilling at 2894 ft. with its Jewett Fee No. 83X-24 on Sec. 24-30s-21e. In addition to its 137-acre CCMO lease, the company holds 318 acres of the Jewett fee property. Ohio Oil Company has wells going on the Anticline. They are Tulare Fee No. 2, drilling at 3716 ft. and Tulare Fee No. 3 slugging away at 2240 ft. They are both on Sec. 19-30s-22e.

Hollister Try Spudded

General Petroleum Corporation's O'Connell No. 1 wildcat in the Hollister area of San Benito County has taken the first bite of ground and is digging on down. Location is 1820 ft. north and 405 ft. east from the southwest corner of Sec. 11-12s-4e.

Midway-Sunset Well Drills Ahead

Standard of California at last reports was drilling below 1000 ft. with its M J M & M No. 70 well on Sec. 36-12n-24w in the Midway-Sunset field. Location is about one-quarter mile west of General Petroleum's Moco lease on Sec. 35. Standard several months ago opened up a new producing zone on the lease by completing M J M & M No. 69 for 132 barrels a day from more than 200 ft. of new oil formation of Pacific shale and 700 ft. of Obispo shale, which already has been open to a trio of M J M & M wells and six General Petroleum wells on the adjacent Ethel D lease. In addition to the shale wells, Standard boasts 60 stripper wells on its fee property embracing 440 acres.

Cuyama Valley Wildcat Begins

Three-quarters of a mile southwest of shallow production in the Morales Canyon sector of Cuyama Valley, North Basin Exploration Company is drilling at a depth yet inconclusive with its Whitney No. 1 on Sec. 9-11n-28w, San Luis Obispo County. East of the Russell Ranch field, Richfield has given up its Russell C No. 4 on Sec. 3-10n-27w. The project went to 5045 ft. Fish has been recovered from C. W. Colgrove's Mettler No. 35-21 test on Sec. 21-10n-25w and larger rig was moved in to carry the hole on down from present depth of 5225 ft.

Kern County Leases Taken

Loren L. Hillman of Los Angeles has leased from the Capital Company the northeast quarter of Sec. 10-31s-27e in the Bannister sector near Old River in Kern County. Northwest of the Bowerbank gas field near Buttonwillow, Universal Consolidated has leased 320 acres from Tracy Ranch, Inc. Acreage is on the southeast quarter of Sec. 31-28s-24e and on the southwest quarter of Sec. 4-29s-24e.

Hanford Attracts Wildcat Drilling

Standard of California is near the spudding stage with its Mills No. 58-8 wildcat well on Sec. 8-19s-22e on unproved ground several miles southeast of the town of Hanford in Kings County. The drill site is about five miles southwest of Hoshen Syndicate's Drummond Union No. 2, which was finished in the summer of 1950 as a discovery with an initial yield of 96 barrels of 20.2 gravity crude oil daily from the interval open from 5245-5252 ft. Production from the oil finder soon declined to rate below commercial standard.

Approximately one and one-half miles southeast of the Goshen discovery, Harry S. Sankey has started work on his Rockhold No. 1 exploratory project on Sec. 6-19s-23e.

Los Angeles attorney Arthur C. Fisher is preparing to launch a test

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on a block of leases totaling 3000 acres, a short distance south of the small community of Laton and five miles north of Hanford. Don R. Thompson, geologist for the Fisher interests, made known the exploratory well will be located in a structural block with a possible fault closure, evidenced by the northerly trend of the Kings River to the east of the leases.

Fisher has drilled numerous wells in Kern County, the Los Angeles Basinand the Cuyama Valley. But this is his first venture in the northern portion of San Joaquin Valley. He owns large lease holdings at Cuyama, Kern County, on the west side of Sacramento Valley and in Utah and Colorado.

Madera County Wildcat Inactive

East of the town of Madera in Madera County, Leingang Oil Exploration, Inc.'s Smith No. 2 on Sec. 22-11s-19e is still idle at a half dozen ft. below the 1000-ft. level.

Rio Bravo Test Drills

Spudded and well on its way down toward the objective sand is the Stansbury-Webb-McGoey Mann No. 1 extension test on Sec. 21-28s-25e at the north fringe of the Rio Bravo field. The combination of interests sponsoring the well is made up of Stansbury, Inc., Del Webb and Ralph A. McGoey. Location is one-quarter mile north of wells spewing oil. The target should come to light in the neighborhood of 11,500 ft.

Coalinga Test Goes On The Rack

Universal Consolidated Oil Company has pulled out of its Seaboard-SP No. 27-31 wildcat on Sec. 31-18s-16e in the northeast Coalinga area, Fresno County. The venture sidetracked fish and then quit at 4516 ft. Total bottom is 9606 ft. K. L. Kellogg & Sons, contractor, is moving ahead at an inconclusive depth with Shell Oil Company's No. 363X-15, a deep test on Sec. 15-19s-15e at East Coalinga. Following a test that failed of the interval of 2492 ft. and bottom at 2550 ft. in Pray & Walker's No. 58 test on Sec. 19-18s-15e at north Coalinga, the venture faded into history.

Gosford Try Spuds

One mile northwest of production in the Gosford field of Kern County, Hancock Oil Company's KCL No. 43-14 test well on Sec. 14-30s-26e has been spudded and is going deeper.

Orchardale Wildcat Quits

Los Angeles County has registered another deep test failure. Western Gulf Oil Company has abandoned its Unit A No. 1 wildcat well on Sec. 10-3s-11w after drilling to a bottom of 10,089 ft. The project is credited with some oil showings, but they were not viewed as commercial by the company. Derrick was close to the intersection of Leffingwell and Miller roads.

Clark Oil Organized

Clark Oil Company has been organized in Los Angeles to primarily acquire oil properties and improve and develop them. Members of the new company include Thomas F. Cusack, B. L. De Pry and Roland T. Williams.

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New Management Positions At Shell Development Company

Establishment of a new level of management at Shell Development Company, Emeryville, California, has been announced by Dr. M. E. Spaght, president. The posts of "Supervisor—Research" and "Supervisor—Development" have been created to permit the delegation of management authority and responsibility on a basis more consistent with the nature and size of the organization, which now numbers over 1,250 employees.

The first promotions to the new positions include G. W. Bond, F. R. Brooks, S. Groennings, F. H. Stross, and F. T. Weiss, Supervisors—Research, Analytical Department; and H. A. Cheney, D. D. Davidson, F. D. Moss, and J. C. Rapean, Supervisors—Development, Experimental Plants Department.

Oceanic To Expand Exploration For Oil

Oceanic Company, a partnership, has been formed as an integral part of Oceanic Oil Company's expanded oil exploratory program. A joint announcement by Oceanic Oil Company and J. Barth and Company, investment bankers, said that a total capitalization of $1,500,000 is contemplated by a group of individuals and Oceanic Oil as limited partners. It was pointed out that in addition to being a limited partner, Oceanic Oil is sole general partner and as such has the responsibility of directing expenditures of the capital, which is to be used exclusively for drilling. Through its enlarged exploration department, Oceanic Oil also will be responsible for developing geology and directing acquisition of land selected for drilling. Headquarters of the company are in Los Angeles, with branch offices in Bakersfield and Ventura, Calif., and Midland and San Antonio, Tex. A new office is being opened in Billings, Mont. It is anticipated that the drilling funds will be expended over a two-year period.

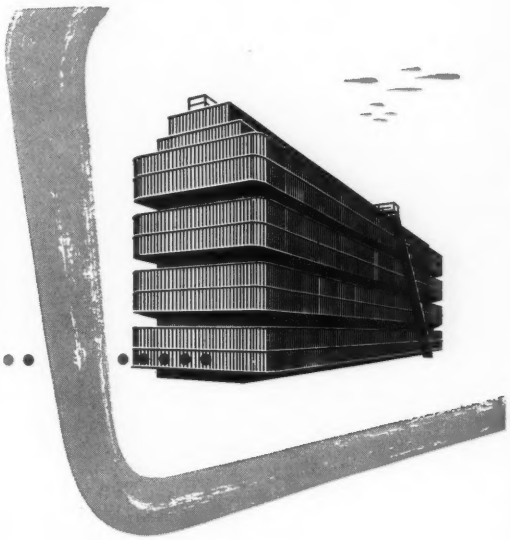
Wildcat Slated For Southwestern Iowa

To date no petroleum has been developed in Iowa. Nevertheless, a test in the Southwestern part of the state has been started under the banner of the L. B. Jackson Company of Tulsa, Okla., near Lamont in Decatur County. More specifically, drill is about the center of Sec. 7-68n-26w. The Jackson organization holds leases on some 2000 acres on a farm which the late L. B. Jackson obtained in 1943. At the time of his death in 1945, the land had not as yet felt the drill, but his widow, Mrs. Pearl B. Jackson, and son, L. B. Jackson, Jr., kept the rentals paid up. A short time ago they had L. E. Kennedy, a consulting geologist of Tulsa, survey the farm and adjacent land. From all reports the "oil smeller" recommended a 2800 ft. test be drilled on the block.

Listen, y'all, Paul C. Lamb has been elected president of the old South's great University of North Carolina Alumni Association of Southern California. Lamb is manager of Richfield Oil Corporation's marine department.

let fluor inspect your cooling tower

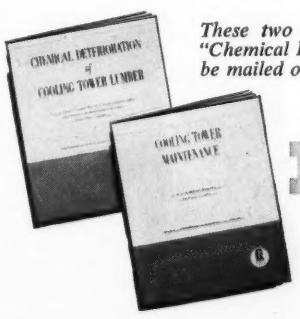
at least once a year



To keep cooling towers in tip top condition and to add years to their life, they should be shut down and thoroughly cleaned from top to bottom at least once a year. A thorough inspection of the structure should be made to determine the repairs and replacements necessary to keep the towers operating at peak performance.

Fluor maintains a special division for just this service. Regardless of the type or make of your cooling tower, Fluor's qualified personnel will gladly make a free inspection, provide a written report of its condition together with recommendations for repair, furnish a complete blueprint and an itemized breakdown of materials needed, plus a cost estimate (including labor)—without charge or obligation.

Fluor's years of experience with all types of cooling systems can save you money on cooling tower repair jobs. Fluor will handle the entire repair job or any part of it on a contract basis or on cost-plus. Arrange for an early inspection by calling any Fluor office.



These two articles "Cooling Tower Maintenance" and "Chemical Deterioration of Cooling Tower Lumber" will be mailed on request by writing to

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With Drilling Contractors

Ned Brown, head of Brown Drilling Company of Long Beach, in recent weeks at the beckon of business has travelled by plane to Denver, Wichita Falls, Dallas, New Orleans, San Antonio and Houston. During 1951 a total of 61,227 miles were flown by the widely known contract driller.

Art Heiser, who was recently appointed vice president of Brown Drilling, has been with the company since 1947. He is a native of Wyoming and a graduate of the Colorado School of Mines. His friends in the oil industry are legion.

Drilling contractors are completely in accord with the request of the Independent Petroleum Association of America for removal of all controls over the price of crude oil and natural gas. Contractors are obviously acutely cognizant of the continuing rise in all aspects of drilling costs and that crude oil prices should be adjusted upward as a matter of true economy and equity. In the request to the Office of Price Stabilization, the IPAA pointed out that no over-all general increase in petroleum prices had been made since 1947. In contrast, the general level of wholesale prices in the United States has risen more than 11 per cent since the beginning of hostilities in Korea.

Gene Reid Drilling Company has clicked with a good gas well for Honolulu Oil Corporation, which extended the Willows gas area in Glenn County. The well on test put out at the rate of 1,400,000 cubic feet of gas a day. Drilled to a total depth of 3000 feet on Sec. 7-20n-2w, perforated at intervals are at 2750-2795 and 2825-2870 ft. The Upper Willard was topped at 2235 ft. and the Lower Willard at 2750 ft.

Humble Oil & Refining Company will expend $245,000,000 for drilling and other facilities this year. The program slated for 1952 is even larger than last year when this company, one of the country's leading oil producing organizations, paid out a record $188,000,000 on new facilities. This sum included $29,000,000 for dry hole costs. By the middle of the year, current, Humble will exceed the $1,000,000,000 mark for expenditures on new facilities since World War II. By the close of 1951 the company's postwar capital spending had soared to $872,000,000. Hines H. Baker, president, disclosed that new capacity costs at this time are substantially higher than before the war. He cited that the average well drilled by Humble in 1951 cost more than three times as much as it would have a decade ago. The 1951 average was $81,500 a well. However, some dry holes cost as much as $500,000 and one producing well called for more than $1,000,000 to complete successfully.

Turning to Shell Oil, that company reported capital expenditures in 1951 of $145,714,000, the highest in Shell's history. This sum was devoted mainly to increasing crude oil and natural gas production and creating new underground reserves of crude oil. The company's exploration and production operations during 1951 led to some 30 discoveries.

These great organizations, in continuing expansion of their drilling and production branches, exemplify the attitude of the oil industry in California and everywhere as recognizing that economic strength and military security depend on a ready supply of petroleum. In consideration of this, drilling contractors will be called upon more and more to drill new wells in order that all petroleum demands are satisfied fully.

Jimmy Worley, popular member of the Rocky Mountain Drilling Company family is convalescing satisfactorily following treatment at the Methodist Hospital in Los Angeles for a heart seizure.

Pacific Drilling Company has spudded Eureka Refining Corporation's Eureka - Wright - Hart Comm. No. 14 on Sec. 14-19s-25e, four and one-half miles southeast of the town of Visalia, Tulare County. Eureka Refining is headed by J. A. Novelli, with headquarters at Long Beach. The company's representative in the field is Herbert H. Schisler, Highland Motel in Visalia.

Long Beach College has opened a class in oil well drilling tool and equipment. This is the first time the course has been offered by the college and also the first time it has been given in Southern California. The classes are held at 1305 East Pacific Coast Highway, Room 160, Mondays and Wednesdays, from 7 to 10 p.m.

California contractors, who punch holes down wherever oil is a possibility, are eyeing developments in Peru. There President Manual Ortiz has signed a new Peruvian law opening the country's oil desposits to foreign companies under a 50-50 profit-sharing between the oil firms and the Government. Peru apparently does not have sufficient state or private capital to exploit oil itself. Moreover, it lacks technical experts needed in such work.

Jess Hooper, contractor, is ready to deepen from present depth of 3475 ft. the Ernest T. Wix wildcat known as Benz No. 1 on Sec. 8-4n-15w at Placerita.

Masters Drilling Company of Bakersfield and headed by J. J. Masters, has started work on its interesting contract job with Independent Exploration Company on Sec. 30-28s-20e in the Stone Corral area, Kern County. The wildcat is tagged Signal-USL No. 1.

This could happen only in America

A 50th Birthday Message from The Texas Company

FIFTY years ago a tiny company was started in Beaumont, Texas, where oil had just been discovered.

This company started with one tract of land which might contain oil, one storage tank, one short stretch of pipe line, one pile of bricks for building a refinery—a little money and a lot of hope.

On its golden anniversary, this company has 9,700,000 acres of producing or potential oil land in the United States, owns or operates more than 7,000 miles of pipe lines, drills close to a thousand new wells each year, has refineries, oil storage tanks, distributing plants, research laboratories and all the other complex facilities needed to serve customers in every state of the Union and throughout the world.

This company also has today over 100,000 owners—investors whose faith and dollars helped it to rise to its opportunities.

Such things could happen only in America—because only America gives men the freedom to make them happen.

This is a land where men have been free to run risks and reap the rewards their courage and judgment deserve.

It has been a land where men have been free to invent or invest—to pioneer or produce—to the limit of their ability and their vision of what could be done.

It has been a land of independence of thought and action—in which the best man was allowed to win.

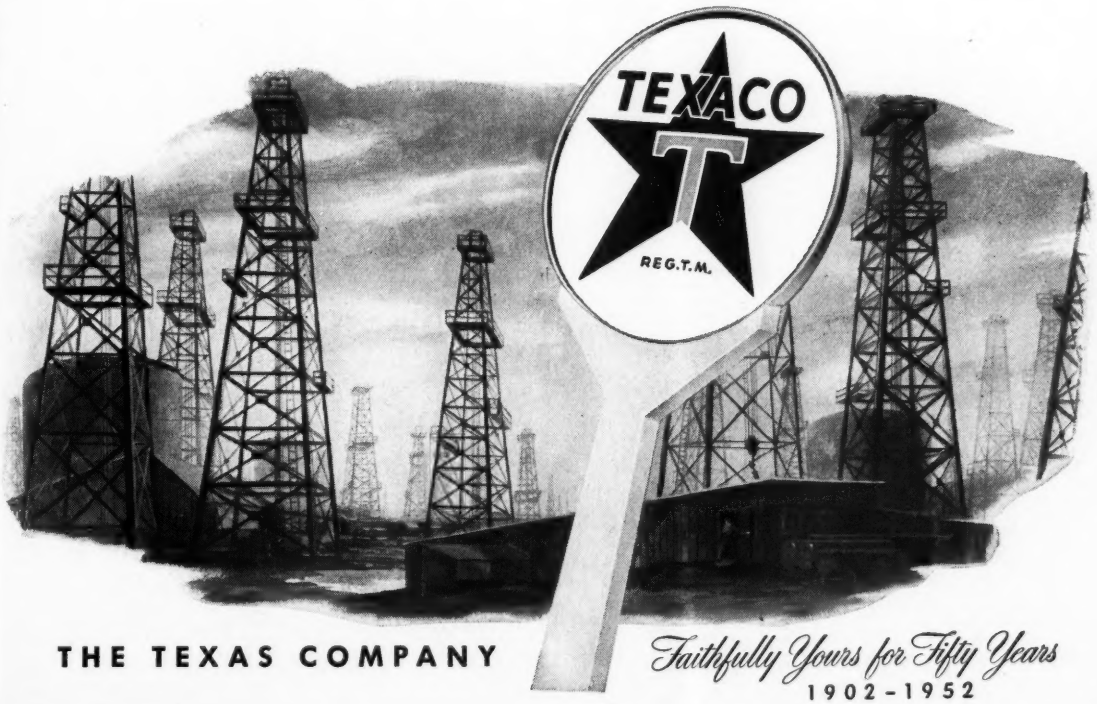
The Texas Company has gone it alone in the oil business—asking no favors—standing on its own feet—competing for its share of the business by developing and marketing good fuels and lubricants—seeking no security except that which it could earn.

Other companies have gone it alone in other industries. And we—and they—and America have grown together, beyond anything the world has ever seen.

It is not by accident that America builds 83% of the world's automobiles—generates 42% of the world's horsepower—and produces 51% of the world's oil.

That is why America, over the past fifty years, has been known as "the land of opportunity."

That is also why, in a world which lives today in the shadow of conflict and in an atmosphere of economic uncertainty, America shines as an island of hope for all to see.



THE TEXAS COMPANY

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1902-1952

Emsco Announces Two New J-Series Rigs

Two new rigs, the J-1100 and J-1400, designed for medium to deepest drilling, are being introduced by Emsco Derrick & Equipment Company.

They feature Emsco's "packaged design." Drawworks, selective speed transmission, compounding transmission and sand reel, optional and independent of the drawworks, are skid-mounted and packaged separately in 8-foot roadable widths.

The independent selective speed transmission eliminates long chain and V-Belt drives; makes possible four different types of set ups; full flat set, one-step, two-step and three-step. The latter is used for deep drilling operations and submergible barges requiring heavy blow-out preventer equipment and extra tall substructures.

Optional wash down pump drive package is available to mount on the driller's end of the input shaft of the selective transmission.

The "packaged design" of the J-1100 and J-1400 gives these big rigs the portability of much smaller units, at the same time assuring greater flexibility of operation.

All air controls and gauges, necessary to the operation of these rigs from the driller's position, are mounted in a separate console. The console and hand brake lever are installed forward of the drawworks on a roomy, detachable skid base bolted to the drawworks skid. In operating the console controls and hand brake lever, the driller faces the rotary end of the drawworks to assure maximum observation of derrick and floor operations.

The J-1100 and J-1400 are identical in design and operations. Dimensions of the J-1400 are slightly larger. Both rigs are offered with either mechanical, fluid coupling or electric coupling drives and are adaptable to torque converter drives.

All clutches are mounted on the ends of shafts to facilitate servicing.

The master clutch is mounted on the rotary end of the input shaft on both selective transmissions. The neutral brake, a Fawick expanding type, is mounted on the driller's end of the input shaft on both transmissions.

All drive chains are heavy duty. Drawworks, selective transmission and compounding transmission drives and shaft bearings are totally enclosed and pressure lubricated by individual lubricating systems. Connecting chain drives are separately lubricated.

One of the unique exclusive features of the J-Series Rigs is the five-position one-lever control on the compounding transmissions. This control permits the engine to be compounded in any required combinations by merely moving the lever as indicated on the panel.

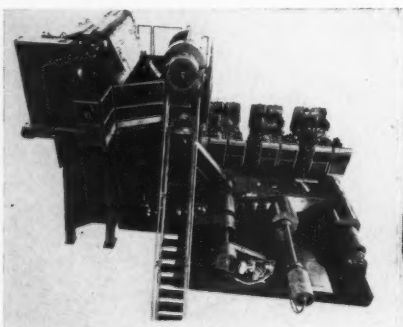
A local engine control panel is located adjacent to the one-lever control on the engine side of the compounding transmission.

The compounding transmission may be powered by two, three or four engines. All auxiliary equipment is driven through the compounding transmission thus eliminating the additional expense of auxiliary engines.

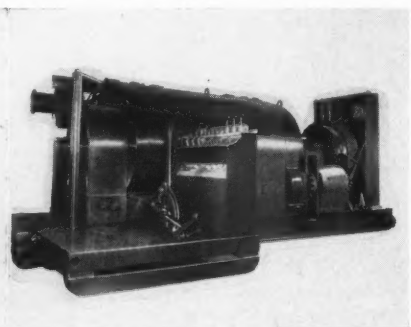
Brake rim cooling water, introduced through the driller's end of the drumshaft, eliminates the necessity for a stuffing box and water tubes in the rotary end. This permits a feed-off drive to be mounted outboard of the auxiliary brake.

An optional pedestal-mounted countershaft, driven from the #1 compounding transmission shaft, provides clutched drives for auxiliary equipment, such as one or two 15KW or 25KW generators, and an additional air compressor, if desired.

This countershaft, and the auxiliary equipment driven by it, are mounted on the substructure panel which supports the slush pump pedestal. Standard auxiliary equipment, available without this countershaft, are, one air compressor and one generator, both non-clutched.



EMSCO J-1100 two-step set up



Skid-mounted drawworks of EMSCO J-1100 with separate driller's console.

Superweld Expands Facilities

In line with the tremendous increase in its business in the past year and to provide better facilities for its aircraft and industrial customers, Superweld Corporation (formerly of Glendale, California) has moved into its own new building at 6840 Vineland, corner of Van Owen, North Hollywood, California, according to Robert Jones, president.

Superweld is one of the leading companies west of Chicago engaged in electric furnace brazing, stainless steel and non-ferrous scale-free annealing, scale-free high permeability annealing. The firm has the largest electric furnaces west of Detroit available for custom brazing.

The new structure has been scientifically designed to embody streamlined facilities for fast, efficient flow of production in and out of Superweld's plant. From the time parts are unloaded, through weighting, sorting, brazing or annealing operations, they are carefully handled by trained workmen, and checked by skilled engineers.

Electric furnace brazing and bright annealing make possible substantial savings in costs, time and critical materials and are widely used by aircraft, oil tool, metal manufacturing and other industrial plants.

Recording Voltmeter Checks Quality of Automatic Welds

By George A. Hatfield
Production Superintendent
The National Supply Co.
Torrance, California

On some of the wash pipes we manufacture for our Ideal Swivels we weld a machined steel ring to the tubular body at one end to form a shoulder. The welding is done by the submerged-arc method on an automatic machine and, as the name implies, the arc and bead are hidden from the operator during application. Thus, he cannot check the work or make adjustments for erratic behavior while the weld is being made. To be on the safe side, we had been in the habit of laying two beads, one over the other, to get a high-quality leak-proof joint.

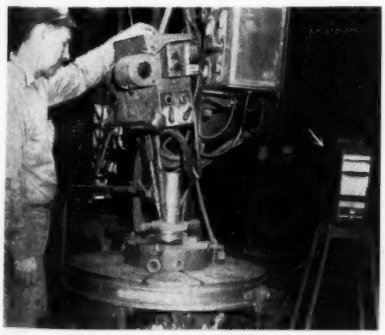


Fig. 1—Logan Brown, machine operator, checking one of the automatic welders equipped with a strip-chart voltmeter used to measure voltage variation across the arc.

Even with this practice we had no definite assurance of a quality weld, or evidence when the machine was operating erratically until the part was tested and inspected. What we wanted and needed was some means of indication that we could interpret in terms of either harmful or merely incidental departures from normal.

After investigating several suggested methods, a joint committee from the weld shop and plant electrical department selected the idea of measuring the voltage variation across the arc as being the best telltale of conditions in the weld. Connected across the electrode and work, the strip-chart recording voltmeter

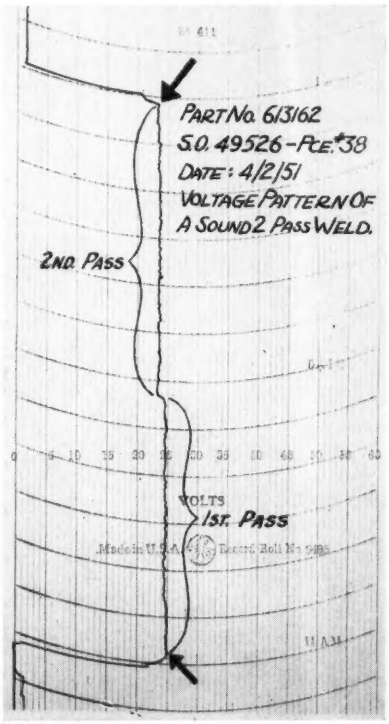


Fig. 2—Chart line within the two arrows shows the voltage pattern of the arc during a sound two-pass weld.

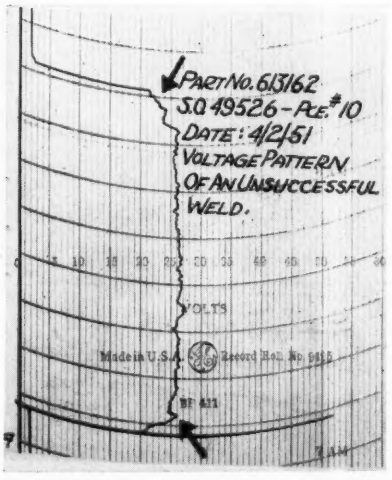


Fig. 3—Voltage pattern of an unsuccessful weld caused by lack of root penetration. Result was a one-pass weld instead of two—the bottom of the groove filled with flux.

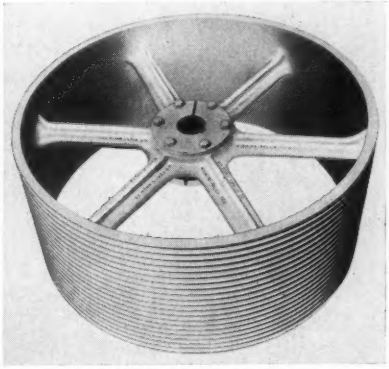
selected has been successfully providing true pictures of the welds that match x-ray tests.

To correlate the pattern on the chart with the welded part, both the part and its chart pattern are numbered, and if the chart curve deviates from normal, the part is forwarded to the laboratory for x-ray. As a means of reducing x-ray examinations to those parts exhibiting flaws that might cause leakage, we are building up an album of records by attaching the voltmeter chart to its corresponding x-ray film together with a statement of facts bearing on the case.

As the album library grows we will be able to identify variations on the voltmeter chart with the type of operating incident and effect on the product to minimize the number of x-rays needed.

V-Belt Pulleys

Wichita V-belt pulleys are now available in any size up to 70" pitch and 36" face, for any standard belt size. The manufacturer, which is the only V-belt pulley manufacturer in the southwest having its own foundry, carries many sizes in stock with the improved split type removable



hub which can be quickly bored and keywayed to any desired size. Other sizes and types can be cast and delivered in a hurry. The Wichita Improved Split Type Removable Tapered Hub has a longer and firmer grip on the shaft than most other types of removable hubs, and is firmly bolted to both sides of the pulley hub which provides all the rigidity and strength of a solid hub, with easier removal from shaft and change of bore, than any other split type hub. Wichita Falls Foundry & Machine Co., Inc., Wichita Falls, Texas.

THIS

LAUGH

OFF!!

A sailor wandered into the tennis match and sat down.

"Whose game?" he asked.

A shy young thing looked up, hopefully, "I am."

Wife (in the midst of an argument with her hubby): "There's no use discussing things with you! We can't agree on a single thing."

Hubby: "You're wrong. For instance, if we walked into a room with two beds in it—a woman in one and a man in the other—in which would you choose to sleep?"

Wife: "With the lady, of course!"

Hubby: "That proves my point. We agree. So would I."

June (a bride) was showing her uncle over their new home.

"This is my room, Uncle. You see, we have twin beds; they are so much more hygienic. That is Harry's, and this is mine."

Then the uncle noticed a blue china clock on the mantle and remarked, "What a charming clock."

"Yes," replied June, "it's a wedding present from dear Grandma."

A few weeks later the uncle received a note from June telling how the blue clock had disappeared the very afternoon he was there. Could he throw any light upon the subject?

The uncle answered by return mail. "Dear June, look in Harry's bed."

Mrs. Miller: "What lovely antique furniture. I wonder where Mrs. Adams got that huge old chest.

Mrs. Butler: "Well, they tell me her mother was the same way."

Wife (on returning from party): "Why is it I buy a beautiful new evening gown and you never even notice it, but you get popeyed staring at every other woman in the place?"

Husband (sleepily): "Once you know what's in the package, it doesn't matter how it's wrapped."

He glanced at the beautiful woman beside him, his look heavy with anxiety and humble pleading, but she was unconscious of his appeal. For long moments he watched her, struggling with his emotions, desiring, yet afraid to ask the question that trembled on his lips. At last he spoke, wistfully, yearningly:

"Ma, c'n I have the little piece of pie left over from dinner?"

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FOR TEMPERATURES UP TO 300° F.

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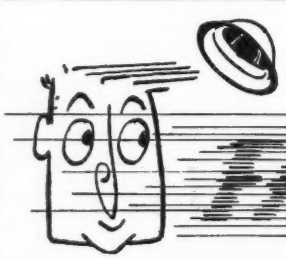
Description	Volts	Max. Temp.	Ohms/Sq	Watts Sq. In.	Length of Tape	Width of Tape	Price Complete
E-115-120	115	300°F.	0.368	2.5	10'	1¾"	$9.85
E- 27-120	27	300°F.	0.02	2.5	10'	1¾"	9.85
E- 27- 28	27	300°F.	0.368	2.5	28"	1¾"	4.85

Complete kit includes heat tape, insulation, busses, pads, T-1

Electrofilm CORP.

DEPT. CW3, 7116 LAUREL CANYON BLVD., NORTH HOLLYWOOD, CALIF.



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